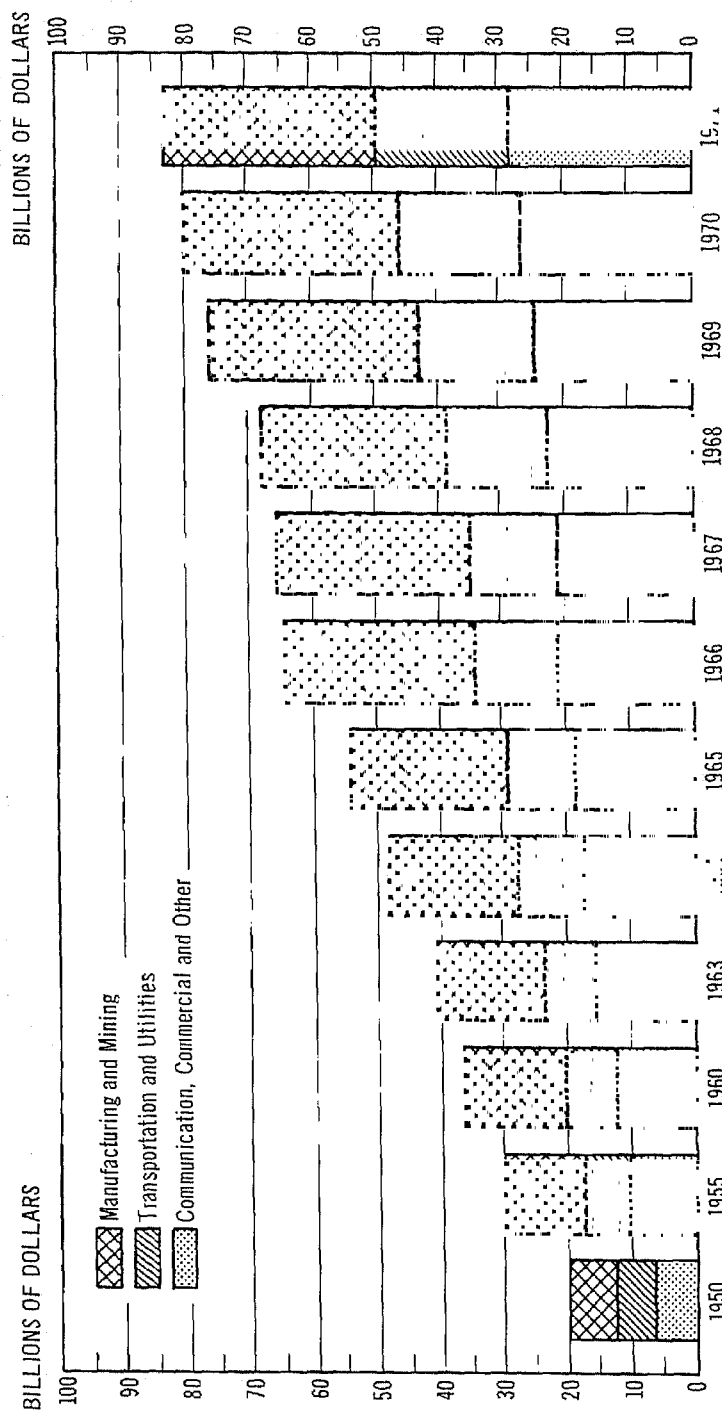


FIG. XXIX. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1950 TO 1971

(See table 734)



1 Estimated; see footnote 1, table 734.

Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Securities and Exchange Commission and Dept. of Commerce, Office of Business Economics.

## Section 17

### Business Enterprise

This section relates to the place and behavior of the business firm and of business initiative in the American economy. It includes data on the number and types of businesses; assets and liabilities of corporations; types of business income and expenditures; business sales and inventories; employment and payrolls for businesses subject to the Federal Insurance Contributions Act; consumer cooperatives; mergers, acquisitions, and business failures.

The principal sources of these data are the *Survey of Current Business* and *The National Income and Product Accounts of the United States, 1929-1965*, published by the Office of Business Economics; *County Business Patterns* issued by the Bureau of the Census; the *Federal Reserve Bulletin* issued by the Board of Governors of the Federal Reserve System; the annual *Statistics of Income* reports of the Internal Revenue Service; *The Failure Record Through (Year)*, issued by Dun & Bradstreet, Inc., New York; and *Fortune* and *The Fortune Directory*, issued by Fortune, New York. Other sources are publications of the Securities and Exchange Commission, the Federal Trade Commission, and the Administrative Office of the United States Courts.

**Business firms.**—A business firm is generally defined as a business organization under a single management and may include one or more plants or outlets; a firm doing business in more than one industry is classified by industry according to the major activity of the firm as a whole. The Internal Revenue Service concept of business firm relates primarily to the legal entity used for tax reporting purposes. Its *Statistics of Income* reports present data separately for proprietorships, partnerships, and corporations. While a few corporations file consolidated tax returns (i.e., one return for the parent firm and all its subsidiaries), most corporate tax returns represent individual corporations, some of which are affiliated through common ownership or control with other corporations filing separate returns.

**Corporate assets and liabilities.**—In its annual report, *Statistics of Income, Corporation Income Tax Returns*, the Internal Revenue Service presents balance sheet and income data for all active U.S. corporations. The *Quarterly Financial Report of U.S. Manufacturing Corporations*, published jointly by the Federal Trade Commission and the Securities and Exchange Commission, presents current quarterly income account and balance sheet data for manufacturing industries. In a quarterly release, *Net Working Capital of U.S. Corporations*, the Securities and Exchange Commission publishes data on components of current assets and liabilities of all U.S. corporations exclusive of banks, savings and loan associations, insurance companies, and investment companies.

**Corporate income, profits, dividends, and taxes.**—Several agencies, among them the Internal Revenue Service, the Office of Business Economics, and the Federal Reserve Board, compile corporate income account data. These data, however, are not comparable because of differing methods of compilation.

The Internal Revenue Service publishes financial data for all business enterprises, based on income tax returns filed by proprietorships, partnerships, and corporations. These data appear in *Statistics of Income—Business Income Tax Returns* and *Corporation Income Tax Returns*. Supplemental reports published periodically present data on foreign income and taxes reported by U.S. corporations.

The corporate data issued by the Office of Business Economics (OBE) are a part of its national income and product accounts and are defined as required for purposes of national income estimation. The primary sources of data for the estimates of pro-

fits, taxes, dividends, and undistributed profits are the original corporate tax returns submitted to the Internal Revenue Service. Various adjustments of the *Statistics of Income* data are required by the national income treatment, particularly with respect to depletion, capital gain or loss, treatment of bad debts, measurement of income received from abroad, and intercorporate dividends, and because the original corporate income statements do not represent the final stage of information. OBE's corporate profits data also include the net earnings of several federally sponsored credit agencies which are not included in *Statistics of Income*.

Federal Reserve Board data relating to profits and dividends apply to particular industrial segments only, such as large manufacturing and public utility corporations.

**Sources and uses of corporate funds.**—These data indicate capital requirements of corporations and the manner in which they are financed. Sources of funds are equal to their uses. Certain discrepancies, however, interfere with this equality due to omission of such factors as (1) money accruing to corporations from an excess of sales over purchases of used plant and equipment, and (2) transactions in securities held as permanent investments except public offerings. Also, the balance sheet data upon which many of the financial flow estimates are based are not fully comparable with the tax-return based estimates of internal sources, or the establishment series underlying the figures on inventory change.

**Business sales and inventories.**—Business sales and inventories as defined by the Office of Business Economics are the sum of data for manufacturing, merchant wholesalers, and retail trade. Sales are estimated aggregate values and inventories are book values at the end of the period. Sales signifies sales or shipments for retail and wholesale trade and billings or shipments for manufacturing. Trade inventories are valued at cost of merchandise on hand, while manufacturers' inventories are valued at approximate current costs or at book values, as reported by the manufacturer. Inventories data for manufacturing (see table 735) are based on data from the *Census of Manufactures* and the *Annual Survey of Manufactures*.

To ascertain net physical change in nonfarm inventories, book values of beginning and ending inventories of each year are expressed in terms of constant base year prices by means of selected Bureau of Labor Statistics wholesale price indexes appropriate to each industry. Net increment in deflated book value figures is then converted to a current price basis by index ratios or current prices to base year prices. Change in farm inventories is estimated by the Department of Agriculture from physical quantity data; therefore, no inventory valuation adjustment is shown.

**Plant and equipment expenditures.**—A joint survey by the Securities and Exchange Commission and the Department of Commerce presents quarterly data on actual and anticipated plant and equipment expenditures. In addition, at the beginning of each year, a survey is made of plans of business regarding capital expenditures during the year. The data are based on reports submitted by corporations registered with the Securities and Exchange Commission, by transportation companies under Interstate Commerce Commission jurisdiction, and by a large sample of nonregistered companies reporting to the Department of Commerce.

**Industrial and commercial failures.**—These data, collected by Dun & Bradstreet, are available by years since 1857 and by months since 1900. The number of failures includes concerns involved in court proceedings or voluntary actions likely to end in loss to creditors; discontinuances with outside obligations paid in full are not included. Data cover manufacturers, wholesalers, retailers, building contractors, and certain types of commercial service, but do not encompass finance, insurance, and real estate companies; railroads and steamship lines; and amusement enterprises. Failures data are published monthly in *Dun's Review*.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

# No. 710. PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER, RECEIPTS, AND PROFIT: 1939 TO 1968

[Number in thousands; money figures in billions of dollars. See headnote, table 711]

ITEM	1939	1945	1950	1955	1960	1964	1965	1966	1967	1968
Total, number.....	1,793	6,737	(NA)	(NA)	11,172	11,489	11,416	11,479	11,566	11,672
Receipts <sup>1</sup> .....	171	382	(NA)	(NA)	1,095	1,350	1,469	1,594	1,666	1,813
Net profit (less loss) <sup>2</sup> .....	11	40	(NA)	(NA)	73	96	111	121	119	129
Proprietorships, number.....	1,052	5,689	6,865	8,239	9,000	9,193	9,078	9,087	9,126	9,212
Business receipts <sup>1</sup> .....	24	79	(NA)	139	171	189	199	207	211	222
Net profit (less loss).....	2	12	15	18	21	26	28	30	30	32
Partnerships, number.....	271	627	(NA)	(NA)	941	922	914	923	906	918
Total receipts <sup>1</sup> .....	15	47	(NA)	(NA)	74	75	75	80	80	83
Net profit (less loss).....	2	7	(NA)	(NA)	8	9	10	10	11	11
Corporations, number.....	470	421	629	807	1,141	1,374	1,424	1,469	1,534	1,542
Total receipts <sup>1</sup> .....	133	255	468	642	849	1,087	1,195	1,307	1,375	1,508
Net profit (less loss) <sup>4</sup> .....	7	21	43	47	44	62	74	81	78	86

NA. Not available. <sup>1</sup> See footnote 2, table 715. <sup>2</sup> See footnote 4, table 711.

<sup>3</sup> Gross taxable receipts before deduction of cost of goods sold, cost of operations, and net loss from sales of property other than capital assets. Includes nontaxable interest; excludes all other nontaxable income.

<sup>4</sup> Beginning 1964, includes constructive taxable income from related foreign corporations.

Source: Dept. of the Treasury, Internal Revenue Service; *Statistics of Income, Business Income Tax Returns*.

# No. 711. PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER, RECEIPTS, AND NET PROFIT, BY INDUSTRY: 1968

[Number in thousands; money figures in millions of dollars. Based on sample of unaudited tax returns filed for accounting periods ending between July 1 of year shown and June 30 of following year]

INDUSTRY	NUMBER <sup>1</sup>			BUSINESS RECEIPTS <sup>1 3</sup>			NET PROFIT (less loss) <sup>1 4</sup>		
	Proprietorships <sup>2</sup>	Active partnerships	Active corporations	Proprietorships <sup>2</sup>	Active partnerships	Active corporations	Proprietorships <sup>2</sup>	Active partnerships	Active corporations
Total.....	9,212	918	1,542	222,105	80,532	1,473,768	31,871	11,405	85,962
Agric., forestry, and fisheries.....	3,206	121	31	37,362	5,344	9,017	3,546	654	268
Mining.....	43	13	13	1,220	970	13,795	574	73	1,603
Construction.....	663	50	126	19,334	7,365	70,831	2,887	801	1,713
.....	172	33	192	6,673	5,531	632,925	767	544	44,411
.....	286	15	66	6,175	1,230	109,132	925	162	10,516
.....	1,010	209	472	106,886	34,432	442,510	7,644	2,280	10,365
.....	268	32	153	20,432	10,977	204,042	1,796	566	4,439
Retail.....	1,623	175	315	85,490	22,940	235,504	6,738	1,688	5,852
Fin., ins., and real estate.....	516	209	407	7,760	9,397	146,905	2,501	1,068	15,075
Services.....	2,390	176	229	36,548	16,226	48,543	13,646	5,823	2,022

<sup>1</sup> Includes business not allocable to individual industries. <sup>2</sup> Individually owned businesses and farms.

<sup>3</sup> See footnote 2, table 715.

<sup>4</sup> Net profit or net income less loss or deficit: (a) Proprietorships: Business receipts less total deductions; including cost of goods sold; (b) Partnerships: Total receipts less total deductions, including cost of goods sold, net profit includes investment and other income; (c) Corporation returns: Gross income subject to tax, less ordinary and necessary business deductions; includes constructive taxable income from related foreign corporations. <sup>5</sup> Net loss exceeds net profit. <sup>6</sup> Includes sanitary services.

Source: Dept. of the Treasury, Internal Revenue Service; *Statistics of Income, 1968, Business Income Tax Returns*.

# No. 712. NEW BUSINESS CONCERNS AND BUSINESS FAILURES: 1950 TO 1970

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
Business formations:								
Index of net formations <sup>1</sup> .....(1967=100).....	95.0	99.9	92.7	98.4	100.0	109.4	114.8	106.4
New business incorporations <sup>2</sup> .....1,000.....	93	140	183	204	207	234	274	266
Failures, number.....	9,162	10,969	15,445	13,514	12,364	9,636	9,164	10,748
Rate per 10,000 concerns.....	34	42	57	53	49	39	37	44

<sup>1</sup> Source: Dept. of Commerce, Bureau of the Census. Prior to 1965, excludes Alaska and Hawaii.

<sup>2</sup> Prior to 1960, excludes Alaska. <sup>3</sup> See footnote 2, table 746.

Source: Dun & Bradstreet, Inc., New York, N.Y.; *Monthly New Business Incorporation Report*, except as noted.



# No. 713. PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER AND BUSINESS RECEIPTS, BY SIZE OF RECEIPTS: 1968

[Number in thousands, receipts in millions of dollars. See headnote, table 711]

SIZE CLASS OF RECEIPTS	TOTAL		NUMBER			RECEIPTS		
	Number	Receipts	Proprietorships <sup>1</sup>	Active partnerships	Active corporations	Proprietorships <sup>1</sup>	Active partnerships	Active corporations
Total.....	11,672	1,706,137	9,212	918	1,542	222,105	80,532	1,403,500
Under \$10,000 <sup>2</sup> .....	6,163	18,470	5,545	342	276	17,095	981	394
\$10,000-\$25,000.....	1,968	30,941	1,659	150	159	26,874	2,399	1,068
\$25,000-\$50,000.....	1,259	43,254	958	180	171	33,945	4,608	4,701
\$50,000-\$100,000.....	931	63,509	610	121	200	42,431	8,562	12,516
\$100,000-\$200,000.....	606	82,463	292	94	220	40,171	13,109	29,183
\$200,000-\$500,000.....	420	124,598	119	59	242	34,394	17,690	72,512
\$500,000 or more.....	322	1,342,905	27	21	274	27,195	33,184	1,282,520
Percent distribution.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$10,000 <sup>2</sup> .....	52.8	1.1	60.2	37.3	17.9	7.7	1.2	(2)
\$10,000-\$25,000.....	16.9	1.8	18.0	16.3	10.3	12.1	3.0	0.1
\$25,000-\$50,000.....	10.8	2.5	10.4	14.2	11.1	15.3	6.7	0.3
\$50,000-\$100,000.....	8.0	3.7	6.6	13.2	13.0	19.1	10.6	0.9
\$100,000-\$200,000.....	5.2	4.8	3.2	10.2	14.3	18.1	16.3	2.1
\$200,000-\$500,000.....	3.6	7.3	1.3	6.4	15.7	15.5	22.0	5.2
\$500,000 or more.....	2.8	78.7	0.3	2.3	17.8	12.2	41.2	91.4

Z Less than 0.05 percent. <sup>1</sup> Individually owned businesses and farms.

<sup>2</sup> Includes businesses with no receipts.

# No. 714. PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER, RECEIPTS, AND NET PROFIT, BY INDUSTRY AND SIZE OF BUSINESS RECEIPTS: 1968

[Money figures in millions of dollars. See headnote, table 711]

ITEM	PROPRIETORSHIPS <sup>1</sup>			ACTIVE PARTNERSHIPS			ACTIVE CORPORATIONS		
	Under \$50,000 <sup>2</sup>	\$50,000-\$99,999	\$100,000 or more	Under \$100,000 <sup>2</sup>	\$100,000-\$499,999	\$500,000 or more	Under \$500,000	\$500,000-\$999,999	\$1,000,000 or more
All industrial divisions: <sup>3</sup>									
Number.....1,000.....	8,163	610	439	743	153	21	1,268	122	152
Business receipts <sup>4</sup> .....	77,914	42,431	101,760	16,549	30,798	33,184	131,325	85,198	1,257,243
Net profit <sup>5</sup> .....	16,900	7,698	7,272	2,695	5,305	3,404	3,798	2,833	79,331
Agri., forestry, fisheries:									
Number.....1,000.....	3,096	78	32	109	12	1	28	2	2
Business receipts <sup>4</sup> .....	24,168	5,305	7,889	2,399	2,102	843	2,578	1,274	5,164
Mining:									
Number.....1,000.....	39	2	3	12	1	(2)	10	1	1
Business receipts <sup>4</sup> .....	291	162	767	130	275	565	994	615	12,185
Construction:									
Number.....1,000.....	568	53	42	38	10	2	99	12	15
Business receipts <sup>4</sup> .....	6,040	3,725	9,569	1,202	2,132	4,031	13,680	8,597	48,554
Manufacturing:									
Number.....1,000.....	140	17	7	23	7	2	124	26	42
Business receipts <sup>4</sup> .....	1,544	1,192	3,936	689	1,622	3,220	19,517	18,259	595,149
Transp., comm., electric, gas, sanitary services:									
Number.....1,000.....	262	14	10	13	2	(2)	58	5	5
Business receipts <sup>4</sup> .....	2,040	995	2,239	348	400	474	5,580	3,330	100,222
Wholesale and retail trade:									
Number.....1,000.....	1,338	289	283	130	68	11	342	59	71
Business receipts <sup>4</sup> .....	19,294	20,351	67,247	4,846	14,287	15,299	52,860	41,314	348,335
Finance, insurance, real estate:									
Number.....1,000.....	491	15	9	282	15	2	389	8	10
Business receipts <sup>4</sup> .....	4,198	1,040	2,522	3,084	2,740	3,565	17,538	5,522	123,844
Services:									
Number.....1,000.....	2,204	141	45	136	37	4	214	9	6
Business receipts <sup>4</sup> .....	19,845	9,649	7,553	3,839	7,217	5,170	18,493	6,287	23,763

Z Less than 500. <sup>1</sup> Includes individually owned businesses and farms.

<sup>2</sup> Includes businesses without receipts. <sup>3</sup> Includes business not allocable to individual industries.

<sup>4</sup> See footnote 2, table 715.

<sup>5</sup> Less loss. See footnote 4, table 711.

Source of tables 713 and 714: Dept. of the Treasury, Internal Revenue Service; *Statistics of Income, 1968, Business Income Tax Returns*.

# Proprietorships and Partnerships—Income by Industry 461

## No. 715. PROPRIETORSHIPS AND PARTNERSHIPS—NUMBER AND BUSINESS RECEIPTS, STATES: 1968

[Number in thousands; receipts in millions of dollars. Totals differ slightly from those shown in other tables in this section based on Internal Revenue Service data because of minor variations in estimating techniques for deriving subnational and national statistics. See headnote, table 711]

STATE	PROPRIETORSHIPS <sup>1</sup>		PARTNERSHIPS		STATE	PROPRIETORSHIPS <sup>1</sup>		PARTNERSHIPS	
	Number	Business receipts <sup>2</sup>	Number	Business receipts <sup>2</sup>		Number	Business receipts <sup>2</sup>	Number	Business receipts <sup>2</sup>
U.S. ....	9, 206	221, 911	921	80, 595	S.A.—Con.				
N.E. ....	381	9, 949	38	2, 826	W. Va. ....	59	1, 247	8	296
Maine. ....	50	1, 226	3	192	N.C. ....	247	4, 599	19	1, 476
N.H. ....	29	738	2	107	S.C. ....	105	2, 535	8	698
Vt. ....	23	557	2	117	Ga. ....	184	4, 698	15	1, 355
Mass. ....	162	4, 216	15	1, 332	Fla. ....	271	6, 284	25	1, 700
R.I. ....	27	762	2	165	E.S.C. ....	702	12, 897	56	5, 034
Conn. ....	90	2, 460	14	913	Ky. ....	213	3, 184	16	1, 194
M.A. ....	1, 156	32, 347	163	16, 745	Tenn. ....	228	4, 306	19	1, 756
N.Y. ....	670	15, 104	87	10, 261	Ala. ....	149	3, 115	12	1, 222
N.J. ....	190	5, 726	31	2, 209	Miss. ....	112	2, 292	9	862
Pa. ....	396	11, 517	45	4, 275	W.S.C. ....	1, 093	25, 669	94	8, 696
E.N.C. ....	1, 769	42, 422	166	13, 840	Ark. ....	120	2, 446	9	785
Ohio. ....	432	9, 782	36	2, 785	La. ....	128	3, 620	11	1, 213
Ind. ....	281	5, 840	18	1, 489	Okl. ....	106	3, 906	12	1, 085
Ill. ....	482	12, 471	59	5, 211	Tex. ....	649	15, 697	62	5, 613
Mich. ....	317	8, 981	34	3, 167	Mt. ....	435	10, 610	44	3, 351
Wis. ....	257	5, 348	19	1, 188	Mont. ....	56	1, 370	5	278
W.N.C. ....	1, 340	28, 879	93	7, 158	Idaho. ....	69	1, 332	4	558
Minn. ....	262	5, 203	19	1, 365	Wyo. ....	26	564	2	160
Iowa. ....	270	6, 791	20	1, 676	Colo. ....	118	2, 761	13	897
Mo. ....	308	5, 702	22	1, 840	N. Mex. ....	45	1, 143	5	345
N. Dak. ....	76	1, 454	4	238	Ariz. ....	65	1, 860	7	547
S. Dak. ....	77	1, 708	5	342	Utah. ....	45	995	5	351
Nebr. ....	151	3, 590	11	876	Nov. ....	21	585	3	215
Kans. ....	196	4, 431	12	921	Pac. ....	1, 120	32, 263	158	14, 812
S.A. ....	1, 210	26, 875	109	8, 133	Wash. ....	155	4, 201	18	1, 223
Del. ....	18	506	2	129	Oreg. ....	115	2, 902	13	1, 172
Md. ....	128	3, 276	13	914	Calif. ....	812	24, 160	123	12, 098
D.C. ....	19	302	4	450	Alaska. ....	13	285	1	111
Va. ....	179	3, 428	15	1, 046	Hawaii. ....	25	616	3	298

<sup>1</sup> Individually owned businesses and farms.

<sup>2</sup> Receipts from sales and services less allowances, rebates, and returns; excludes capital gains or losses, and investment income not associated with the taxpayer's business.

Source: Dept. of the Treasury, Internal Revenue Service; *Statistics of Income, 1968, Business Income Tax Returns*.

## No. 716. INCOME OF UNINCORPORATED ENTERPRISES, BY INDUSTRY: 1940 TO 1969

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Income equals business receipts (exclusive of capital gains) less business expenses (exclusive of capital losses and depletion allowances)]

INDUSTRY	1940	1945	1950	1955	1960	1965	1968	1969
All industries <sup>1</sup> .....	13, 090	31, 528	38, 569	41, 899	46, 228	57, 633	64, 819	67, 670
Agriculture, forestry, and fisheries. ....	4, 529	12, 371	13, 860	11, 808	12, 394	15, 440	15, 682	17, 075
Mining. ....	69	129	295	339	276	239	336	351
Contract construction. ....	697	1, 094	3, 088	3, 167	3, 357	4, 332	4, 722	4, 797
Manufacturing. ....	523	2, 305	2, 047	2, 035	1, 841	1, 979	1, 875	1, 893
Transportation. ....	286	432	655	754	794	1, 194	1, 235	1, 164
Communications and public utilities. ....	7	23	34	61	71	103	140	136
Wholesale and retail trade. ....	3, 904	9, 683	10, 076	11, 143	11, 503	12, 548	13, 916	14, 127
Finance, insurance, and real estate. ....	433	899	1, 831	2, 915	3, 163	3, 965	4, 478	4, 309
Services. ....	2, 642	4, 532	6, 683	9, 617	12, 829	17, 833	22, 435	23, 818

<sup>1</sup> Preliminary total for 1970 is \$68,200 million; detail not available.

Source: Dept. of Commerce, Office of Business Economics; *The National Income and Product Accounts of the United States, 1929-1965* and *Survey of Current Business*, July issues.

Source: U.S. Senate, Select Committee on Small Business: *Review of Small Business Administration's Programs and Policies*—1969. (91st Congress, 1st Session.)

# **NO. 719. REPORTING UNITS, EMPLOYMENT, AND PAYROLLS UNDER SOCIAL SECURITY, BY INDUSTRY: 1959 AND 1969**

[Based on reports of establishments except that, in the same county is employees, the self-employment coverage within the scope of source compilation was 79 percent of total paid civilian employment]

INDUSTRY	1959			1969		
	Total reporting units (1,000)	Employees, mid-March (1,000)	Taxable payrolls, Jan.-Mar. (mil. dol.)	Total reporting units (1,000)	Employees, mid-March (1,000)	Taxable payrolls, Jan.-Mar. (mil. dol.)
<b>Total</b> .....	<b>3,303</b>	<b>41,914</b>	<b>44,087</b>	<b>3,534</b>	<b>56,348</b>	<b>88,426</b>
Agriculture, forestry, and fisheries.....	23	110	80	31	188	195
Mining.....	32	705	920	25	598	1,183
Contract construction.....	302	2,499	2,824	308	3,189	5,942
Manufacturing.....	291	16,207	19,672	299	20,194	37,215
Transportation and other public utilities.....	120	2,930	3,568	128	3,703	7,059
Wholesale trade.....	281	3,092	3,865	298	3,921	7,528
Retail trade.....	1,074	7,744	5,711	1,046	10,707	11,122
Finance, insurance, and real estate.....	293	2,506	2,633	331	3,500	5,736
Services.....	815	5,796	4,502	980	9,974	12,035
Unclassified establishments.....	72	325	252	88	365	410

Source: Dept. of Commerce, Bureau of the Census; *County Business Patterns, U.S. Summary, 1959 and 1969.*

# **NO. 720. REPORTING UNITS AND EMPLOYMENT UNDER SOCIAL SECURITY, BY EMPLOYMENT SIZE, BY INDUSTRY: 1969**

[For coverage and industry totals, see table 719]

INDUSTRY	EMPLOYMENT-SIZE CLASS							
	1-3	4-7	8-19	20-49	50-99	100-249	250-499	500 or more
<b>Reporting units</b> .....	<b>1,798,131</b>	<b>720,408</b>	<b>586,055</b>	<b>265,443</b>	<b>86,867</b>	<b>49,529</b>	<b>16,051</b>	<b>11,503</b>
Percent of total.....	50.9	20.4	16.6	7.5	2.5	1.4	0.5	0.3
Agric., forestry, and fisheries.....	18,990	6,764	4,074	1,273	266	79	13	3
Mining.....	9,516	4,459	5,397	3,353	1,186	633	238	134
Contract construction.....	157,109	65,640	51,891	22,816	6,881	3,024	569	188
Manufacturing.....	70,329	47,676	66,008	52,155	26,604	21,423	8,465	6,461
Transportation and other public utilities.....	52,937	23,845	25,661	14,518	5,675	3,200	979	839
Wholesale trade.....	113,527	67,254	71,312	33,527	8,718	3,237	603	249
Retail trade.....	508,373	250,359	191,189	69,432	16,688	6,659	1,813	1,210
Finance, insurance, and real estate.....	211,517	54,162	38,497	17,417	5,412	2,920	874	592
Services.....	596,247	184,678	122,232	48,196	15,677	8,356	2,497	1,818
Unclassified establishments.....	50,566	15,671	9,794	2,766	-	-	-	-
<b>Employees, mid-March, 1,000</b> .....	<b>3,123</b>	<b>3,736</b>	<b>6,993</b>	<b>8,030</b>	<b>5,950</b>	<b>7,514</b>	<b>5,519</b>	<b>15,483</b>
Percent of total.....	5.5	6.6	12.4	14.3	10.6	13.3	9.8	27.5
Agric., forestry, and fisheries.....	33	35	47	37	18	12	5	2
Mining.....	16	24	67	103	81	96	83	130
Contract construction.....	273	340	617	680	408	445	192	167
Manufacturing.....	130	254	827	1,638	1,858	3,322	2,927	9,288
Transportation and other public utilities.....	91	126	313	445	384	489	333	1,523
Wholesale trade.....	206	356	863	1,005	588	474	202	226
Retail trade.....	932	1,301	2,248	2,051	1,119	984	619	1,453
Finance, insurance, and real estate.....	330	278	458	523	309	441	300	806
Services.....	1,018	943	1,440	1,459	1,066	1,251	859	1,938
Unclassified establishments.....	94	81	115	75	-	-	-	-

- Represents zero.

Source: Dept. of Commerce, Bureau of the Census; *County Business Patterns, U.S. Summary, 1969.*

## No. 721. NONFINANCIAL CORPORATIONS—ASSETS AND LIABILITIES: 1945 TO 1970

(In billions of dollars, except ratio. As of December 31. Covers all U.S. corporations excluding banks, savings and loan associations, and insurance and investment companies, 1945-1967 based on Internal Revenue Service, *Statistics of Income*, covering virtually all corporations in United States; 1968-1970 estimated (subject to revision), based on data compiled from many different sources, including data on corporations registered with SEC)

CURRENT ASSETS AND LIABILITIES	1945	1950	1955	1960	1965	1967	1968	1969	1970
<b>Current assets</b> .....	<b>97.4</b>	<b>161.5</b>	<b>224.0</b>	<b>289.0</b>	<b>410.2</b>	<b>470.4</b>	<b>513.8</b>	<b>555.9</b>	<b>572.1</b>
Cash on hand and in banks <sup>1</sup> .....	21.7	28.1	34.0	37.2	49.9	54.1	58.0	54.9	56.9
U.S. Government securities <sup>2</sup> .....	21.1	19.7	23.5	20.1	17.0	12.7	14.2	12.7	9.7
Receivables from U.S. Government <sup>3</sup> .....	2.7	1.1	2.3	3.1	3.9	5.1	5.1	4.8	4.2
Other notes and accounts receivable.....	23.2	55.7	86.6	126.1	190.2	216.0	237.1	261.0	268.0
Inventories.....	26.3	55.1	72.8	91.8	126.9	153.4	165.8	184.8	194.4
Other current assets <sup>4</sup> .....	2.4	1.7	4.2	10.6	22.3	29.0	33.6	37.8	38.8
<b>Current liabilities</b> .....	<b>45.8</b>	<b>79.8</b>	<b>121.0</b>	<b>160.4</b>	<b>229.6</b>	<b>271.4</b>	<b>301.8</b>	<b>342.7</b>	<b>355.2</b>
Advances and prepayments, U.S. Govt. <sup>3</sup> .....	.9	.4	2.3	1.8	3.1	5.8	6.4	7.3	6.6
Other notes and accounts payable.....	24.8	47.9	73.8	105.0	160.4	190.6	209.8	233.1	244.5
Federal income tax liabilities.....	10.4	16.7	19.3	13.5	19.1	14.1	16.4	16.6	15.9
Other current liabilities.....	9.7	14.9	25.7	40.1	46.9	60.8	69.1	80.6	88.1
<b>Net working capital</b> .....	<b>51.6</b>	<b>81.6</b>	<b>103.0</b>	<b>128.6</b>	<b>180.7</b>	<b>198.9</b>	<b>212.0</b>	<b>213.2</b>	<b>217.0</b>
Ratio to current assets.....	53.0	50.5	46.0	44.5	44.1	42.3	41.3	38.4	37.9

<sup>1</sup> Includes time certificates of deposits. <sup>2</sup> Includes Federal agency issues.

<sup>3</sup> Includes Federal agency issues. <sup>4</sup> Includes Federal agency issues. on corporation's  
hereafter possible,  
corporation's books,  
deposit) as well  
as sundry current assets.

Source: Securities and Exchange Commission; Statistical Series, *Net Working Capital of U.S. Corporations*. Data published quarterly.

## No. 722. USES AND SOURCES OF FUNDS, NONFARM NONFINANCIAL CORPORATE BUSINESS: 1950 TO 1970

(In billions of dollars. Minus sign (-) indicates a reduction in assets or liabilities)

USE OR SOURCE	1950	1955	1960	1965	1966	1967	1968	1969	1970
<b>Uses, total</b> .....	<b>41.9</b>	<b>50.1</b>	<b>43.7</b>	<b>85.8</b>	<b>92.5</b>	<b>86.6</b>	<b>102.4</b>	<b>113.3</b>	<b>107.7</b>
<b>Purchases of physical assets</b> .....	<b>24.1</b>	<b>31.5</b>	<b>39.0</b>	<b>62.8</b>	<b>77.1</b>	<b>72.0</b>	<b>76.8</b>	<b>86.7</b>	<b>85.6</b>
Nonresidential fixed investment.....	17.8	25.8	34.9	52.8	61.6	62.5	67.4	76.0	79.6
Residential structures.....	1.5	.8	1.1	2.0	1.1	2.3	2.4	2.9	3.2
Change in business inventories.....	4.8	4.9	3.0	7.9	14.4	7.3	7.0	7.2	2.8
<b>Increase in financial assets</b> .....	<b>17.8</b>	<b>18.6</b>	<b>4.7</b>	<b>23.1</b>	<b>15.5</b>	<b>14.6</b>	<b>25.6</b>	<b>26.6</b>	<b>22.1</b>
Liquid assets.....	4.5	5.5	-3.2	1.7	1.9	2.1	8.6	1.3	15.8
Demand deposits and currency.....	1.5	1.0	-5	-1.5	.7	.7	1.6	-9	1.0
Time deposits.....	-	-1.1	1.3	3.9	-7	2.9	1.9	-0.8	12.8
U.S. Government securities.....	2.9	4.2	-5.4	-1.6	-1.2	-2.8	1.7	-1.7	1.7
Open-market paper.....	(2)	.1	1.7	.5	2.0	1.5	4.4	8.6	-2.0
State and local obligations.....	.2	.2	-2	.5	1.0	-2	-1.1	5.1	.4
Consumer credit.....	.8	.7	.4	1.2	1.2	.9	1.7	1.3	1.4
Trade credit.....	11.8	11.4	5.3	15.1	11.3	7.7	13.9	17.3	6.9
Other financial assets.....	.8	1.1	2.2	5.1	1.0	3.8	1.4	6.7	(2)
<b>Sources, total</b> .....	<b>41.9</b>	<b>54.2</b>	<b>48.1</b>	<b>93.1</b>	<b>100.6</b>	<b>96.7</b>	<b>109.5</b>	<b>122.8</b>	<b>110.6</b>
<b>Internal sources</b> .....	<b>17.9</b>	<b>29.2</b>	<b>34.4</b>	<b>56.6</b>	<b>61.2</b>	<b>61.5</b>	<b>62.5</b>	<b>62.5</b>	<b>62.0</b>
Undistributed profits.....	14.3	13.9	10.0	23.1	24.7	21.1	20.9	19.9	15.4
Corporate inventory valuation adjustment.....	-5.0	-1.7	.2	-1.7	-1.8	-1.1	-3.3	-5.4	-4.9
Capital consumption allowances.....	8.6	17.0	24.2	35.2	38.2	41.5	44.9	48.0	51.5
<b>External sources</b> .....	<b>24.0</b>	<b>25.1</b>	<b>13.7</b>	<b>36.5</b>	<b>39.4</b>	<b>35.2</b>	<b>47.0</b>	<b>60.3</b>	<b>48.5</b>
Stocks.....	1.4	1.9	1.6	(2)	1.2	2.3	-8	4.3	6.7
Bonds.....	1.6	2.8	3.5	5.4	10.2	14.7	12.9	12.1	21.3
Mortgages.....	.9	1.8	2.5	3.9	4.2	4.5	5.8	4.8	4.3
Bank loans, not elsewhere classified.....	3.4	4.0	1.9	10.6	7.9	6.4	8.8	11.0	.6
Other loans.....	.1	(2)	1.9	.6	1.4	1.4	3.6	7.0	5.1
Trade debt.....	8.2	7.9	.6	9.1	7.8	4.9	10.1	19.1	7.7
Profits tax liability.....	7.5	4.1	-2.2	2.2	.2	-4.7	2.8	.4	1.6
Other liabilities.....	.8	2.5	4.0	4.6	6.5	5.6	3.8	1.7	1.3
<b>Discrepancy (uses less sources)</b> .....	<b>(2)</b>	<b>-4.2</b>	<b>-4.3</b>	<b>-7.2</b>	<b>-8.0</b>	<b>-10.1</b>	<b>-7.1</b>	<b>-9.5</b>	<b>-2.8</b>

- Represents zero. Z Less than \$50 million.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*. Data from Board of Governors of the Federal Reserve System.

# No. 723. NONFINANCIAL CORPORATIONS—GROSS PRODUCT AND UNIT COSTS: 1950 TO 1970

[In billions of dollars, except current dollar cost per unit. Excludes gross product originating in the rest of the world]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
Gross product originating.....	151.7	216.3	273.1	377.6	430.8	470.2	506.5	519.5
Capital consumption allowances.....	8.6	17.1	24.3	35.4	41.7	45.1	48.3	51.0
Indirect business taxes plus transfer payments less subsidies.....	14.0	19.2	26.4	35.7	39.2	42.9	46.5	49.8
Income originating in nonfinancial corporations.....	120.0	180.1	222.3	306.5	340.8	382.2	411.8	417.8
Compensation of employees.....	94.6	138.2	179.0	236.3	275.8	301.2	329.9	344.3
Net interest.....	.9	1.6	3.0	6.0	9.0	10.5	12.6	14.1
Profits and inventory valuation adjustment.....	33.5	40.3	40.3	64.1	65.1	70.4	69.4	50.5
Profits before tax.....	38.5	42.0	40.1	65.8	66.2	73.7	74.8	64.3
Profits tax liability.....	16.7	19.8	19.5	27.6	28.4	34.7	36.1	30.6
Profits after tax.....	21.7	22.2	20.6	38.2	37.8	39.0	38.7	33.7
Inventory valuation adjustment.....	-5.0	-1.7	.2	-1.7	-1.1	-3.3	-5.4	-4.8
Gross product originating, 1958 dollars.....	186.4	237.2	267.1	357.8	390.2	415.1	432.5	425.6
Current dollar cost per unit of 1958 dollar gross product originating <sup>1</sup> .....	0.814	0.912	1.022	1.055	1.104	1.133	1.171	1.221
Capital consumption allowances.....	.046	.072	.091	.099	.107	.109	.112	.122
Indirect business taxes plus transfer payments less subsidies.....	.075	.081	.099	.100	.100	.103	.107	.117
Compensation of employees.....	.507	.582	.670	.660	.707	.726	.763	.809
Net interest.....	.005	.007	.011	.017	.023	.025	.029	.033
Profits tax liability.....	.080	.084	.073	.077	.073	.084	.083	.072
Profits after tax <sup>2</sup> .....	.090	.086	.078	.102	.094	.086	.077	.063

<sup>1</sup> Equal to the deflator for gross product of nonfinancial corporations, with the decimal point shifted two places to the left.

<sup>2</sup> Plus inventory valuation adjustment.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*.

# No. 724. GROSS PRIVATE DOMESTIC INVESTMENT AND ITS COMPONENTS: 1950 TO 1970

[In billions of dollars. Prior to 1960, excludes Alaska and Hawaii. Consists of net acquisitions of fixed capital goods by private business and nonprofit institutions including commissions arising in sale and purchase of new and existing fixed assets, principally real estate, and value of change in volume of inventories held by business. Covers all private dwellings, including those acquired by persons for their own occupancy]

CLASS	1950	1955	1960	1965	1966	1967	1968	1969	1970 (prel.)
Gross private domestic investment.....	54.1	67.4	74.8	108.1	121.4	116.6	126.5	139.8	135.7
Nonfarm nonresidential structures and equipment <sup>1</sup> .....	24.2	34.8	45.2	66.4	76.2	77.3	83.2	93.8	97.3
Equipment <sup>2</sup> .....	15.7	21.2	27.7	41.6	48.4	50.0	54.3	60.8	63.0
Structures.....	8.5	13.6	17.4	24.9	27.8	27.3	28.9	33.0	34.3
Farm nonresidential structures and equipment <sup>3</sup> .....	3.7	3.3	3.3	4.9	5.4	6.0	5.5	5.5	5.2
Residential structures.....	19.4	23.3	22.8	27.2	25.0	25.1	30.3	32.0	29.7
Nonfarm.....	18.6	22.7	22.2	26.7	24.5	24.5	29.7	31.5	29.1
Farm.....	.8	.6	.6	.5	.5	.6	.6	.6	.6
Net change in business inventories <sup>4</sup> .....	6.8	6.0	3.6	9.6	14.8	8.2	7.6	8.5	3.5
Nonfarm.....	6.0	5.5	3.3	8.6	15.0	7.5	7.5	8.0	2.9
Farm.....	.8	.5	.2	1.0	-.2	.7	.1	.4	.6

<sup>1</sup> Items for nonfarm producers' structures and equipment are not comparable with those shown in table 734 principally because the latter exclude investment by real estate industry, nonprofit organizations, and professional persons.

<sup>2</sup> Total producers' durable equipment less farmers' purchases of equipment, including business motor vehicles.

<sup>3</sup> Farm nonresidential structures plus farmers' purchases of equipment, including business motor vehicles.

See footnote 2.

<sup>4</sup> After inventory valuation adjustment.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*, and unpublished data.

## No. 725. ACTIVE CORPORATIONS—ASSETS AND LIABILITIES: 1940 TO 1968

[In billions of dollars. See headnote, table 594. For number of returns, see table 726. See also *Historical Statistics Colonial Times to 1957*, series V 33 and V 65-85]

ASSETS AND LIABILITIES	1940	1950	1955	1960	1965	1966	1967	1968
<b>Assets or liabilities</b> .....	<b>320</b>	<b>598</b>	<b>889</b>	<b>1,207</b>	<b>1,724</b>	<b>1,845</b>	<b>2,010</b>	<b>2,216</b>
<b>ASSETS</b>								
Cash .....	41	71	87	97	117	126	140	150
Notes and accounts receivable †	43	109	192	242	392	414	449	499
Inventories .....	19	54	71	91	126	141	162	194
Investments, government obligations	30	110	132	135	167	168	173	186
Other current assets .....	(3)	(2)	(2)	10	32	37	46	51
Mortgage and real estate loans .....	(3)	(2)	(4)	129	(5)	178	255	277
Other investments .....	80	97	180	179	465	322	237	333
Capital assets †	100	145	206	293	396	432	407	505
Other assets .....	7	13	21	28	38	37	43	60
<b>LIABILITIES</b>								
Notes and accounts payable †	23	47	76	112	174	197	215	250
Other current liabilities .....	(5)	(5)	(5)	365	583	618	630	751
Bonded debt and mortgages †	49	86	98	154	210	233	262	280
Other liabilities .....	110	262	400	167	220	229	250	233
Capital stock .....	89	94	113	140	161	168	177	191
Surplus and undivided profits (net) ‡	49	129	193	269	375	399	430	485

<sup>1</sup> Less allowance for losses on loans, except mortgage and real estate loans.<sup>2</sup> Included part

<sup>3</sup> For 1940-1955, \_\_\_\_\_ and partly in "Other investments"; for 1965, included in \_\_\_\_\_.

<sup>4</sup> Less depreciation, amortization and depletion on identifiable intangible assets.

<sup>3</sup> Includes bonds, notes,<sup>a</sup> Included in "Other liabilities"

<sup>s</sup> For 1966-1968, reduced by cost of treasury stock.

## No. 726. ACTIVE CORPORATIONS—INCOME TAX RETURNS: 1950 TO 1968

[Number of returns in thousands; money figures in billions of dollars. See headnote and footnotes, table 594. See *Historical Statistics, Colonial Times to 1957*, series V 113, and, for related but not comparable data, series V 86-97]

ITEM	1950	1955	1960	1965	1966	1967	1968
<b>Number of active corporation returns</b> .....	629.3	807.3	1,140.6	1,424.0	1,468.7	1,534.4	1,641.7
With assets at end of year.....	570.0	747.0	1,095.4	1,380.2	1,425.1	1,488.1	1,497.4
Under \$100,000.....	338.5	431.1	639.5	802.4	820.8	860.2	845.9
\$100,000-\$999,999.....	190.3	280.1	389.3	490.7	514.9	535.4	562.9
\$1,000,000-\$9,999,999.....	35.6	47.6	56.3	73.4	75.0	77.3	81.8
\$10,000,000-\$24,999,999.....		4.7	5.8	7.4	7.8	8.2	9.1
\$25,000,000-\$49,999,999.....	4.2	1.6	2.1	2.8	3.0	3.2	3.5
\$50,000,000-\$99,999,999.....	0.6	0.8	1.1	1.5	1.6	1.7	1.8
\$100,000,000 and over.....	0.7	1.0	1.3	2.0	2.0	2.2	2.3
With no assets at end of year.....	59.4	60.3	45.1	43.8	43.6	40.3	44.3
<b>Total receipts</b> .....	458.1	642.2	849.1	1,194.6	1,306.3	1,374.6	1,507.8
Business receipts.....	439.9	612.7	802.8	1,120.4	1,224.4	1,285.0	1,403.5
Other taxable receipts.....	17.9	20.0	45.3	72.5	80.0	87.4	101.7
Tax-exempt interest, gov't obligations.....	.4	.6	1.0	1.8	1.9	2.2	2.6
<b>Total deductions</b> .....	415.3	594.3	804.6	1,119.9	1,225.2	1,295.3	1,420.3
Cost of sales and operations.....	321.3	448.6	577.0	708.0	866.4	908.6	989.0
Interest paid.....	3.2	7.1	14.6	26.4	31.3	35.4	41.2
Taxes paid <sup>1</sup> .....	9.0	14.2	21.1	31.7	35.3	37.1	41.0
Depreciation and amortization.....	7.9	16.0	23.4	34.4	37.7	41.1	44.7
Depletion.....	1.7	2.8	3.5	4.8	5.1	5.5	6.1
Other deductions.....	72.2	105.7	104.9	229.6	249.4	267.7	297.9
<b>Total receipts minus total deductions</b> .....	42.8	47.9	44.5	74.7	81.1	79.3	87.5
<b>Net income less deficit <sup>2</sup></b> .....	42.6	47.5	43.5	73.9	80.5	78.2	86.0
<b>Total income and profit taxes <sup>3</sup></b> .....	17.8	21.7	21.9	29.9	32.4	31.2	37.3
Investment credit.....	(X)	(X)	(X)	1.7	2.0	2.1	2.4
Foreign tax credit.....	(NA)	1.0	1.2	2.6	2.9	3.2	3.7
<b>Net income less deficit after tax</b> .....	25.3	25.7	21.6	43.9	48.1	47.0	48.7

NA Not available. X Not applicable.

1 Excludes (a) Federal income and profits taxes; (b) estate, inheritance, legacy, succession, and gift taxes; (c) income and profits taxes paid to a foreign country; (d) taxes on tax-free covenant bonds; and (f) unidentifiable arm

<sup>2</sup> Excludes wholly tax-exempt interest; beginning 1985, includes constructive taxable income from related foreign corporations.

<sup>1</sup> Beginning 1965, data are after adjustments for investment credit. For 1967 and 1968, includes tax surcharge.

Source of tables 725 and 726: Dept. of the Treasury, Internal Revenue Service; *Statistics of Income, Corporation Income Tax Returns*.

## No. 727. CORPORATIONS, BY ASSET SIZE: 1950 TO 1968

[Number in thousands, assets in billions of dollars, except percent. Active corporations filing income tax returns with assets at end of year]

ASSET SIZE-CLASS	NUMBER OF ACTIVE CORPORATIONS				TOTAL ASSETS			
	1950	1955	1960	1968	1950	1955	1960	1968
Total.....	629.3	807.3	1,140.6	1,541.7	598	889	1,207	2,216
Under \$100,000 <sup>1</sup> .....	397.9	491.5	684.6	890.2	12	16	23	30
\$100,000-\$999,999.....	190.3	260.1	389.3	552.9	55	76	111	164
\$1,000,000-\$9,999,999.....	35.6	47.6	56.3	81.8	100	136	169	216
\$10,000,000-\$24,999,999.....	4.2	4.7	5.8	9.1	86	72	89	141
\$25,000,000-\$49,999,999.....		1.6	2.1	3.5		55	73	121
\$50,000,000-\$99,999,999.....	0.6	0.8	1.1	1.8	42	56	80	128
\$100,000,000-\$249,999,999.....	0.7	0.6	0.8	1.3	304	92	119	197
\$250,000,000 and over.....		0.4	0.6	1.0		385	552	1,218
PERCENT DISTRIBUTION								
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$100,000 <sup>1</sup> .....	63.2	60.9	60.0	57.7	2.1	1.8	1.9	1.4
\$100,000-\$999,999.....	30.2	32.2	34.1	35.9	9.3	8.5	9.2	7.4
\$1,000,000-\$9,999,999.....	5.7	5.9	4.9	5.3	16.7	15.3	13.2	9.7
\$10,000,000-\$24,999,999.....	0.7	0.6	0.5	0.6		8.1	7.4	6.4
\$25,000,000-\$49,999,999.....		0.1	0.2	0.2	14.2	6.2	6.0	5.5
\$50,000,000-\$99,999,999.....	0.1	0.1	0.1	0.1	6.9	6.5	6.6	5.8
\$100,000,000-\$249,999,999.....	0.1	0.1	0.1	0.1	50.8	10.3	9.9	8.0
\$250,000,000 and over.....		0.1	(Z)	0.1		43.4	45.8	55.0

Z Less than 0.05 percent. <sup>1</sup> Includes returns of corporations not reporting balance sheet information.Source: Dept. of the Treasury, Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*.

## No. 728. SHARE OF ASSETS HELD BY THE LARGEST MANUFACTURING CORPORATIONS: 1948 TO 1969

[In percent. Corporations ranked on value of assets in each year. Prior to 1969, excludes newspapers]

CORPORATION RANK GROUP	1948	1950	1955	1960	1965	1967	1968	1969
100 largest.....	40.3	39.8	44.3	46.4	46.5	48.1	49.1	48.2
200 largest.....	48.3	47.7	53.1	56.3	56.7	59.3	60.8	60.1

Source: Federal Trade Commission, Bureau of Economics; *Economic Report on Corporate Mergers, 1970*.

## No. 729. CONCENTRATION OF CORPORATE MANUFACTURING ASSETS AND PROFITS: 1960 AND 1970

[As of January-March]

ITEM	Total	ASSET SIZE-CLASS						
		Under \$10 million	\$10-\$25 million	\$25-\$50 million	\$50-\$100 million	\$100- \$250 million	\$250- \$1,000 million	\$1,000 million and over
1960								
Corporations..... number.....	155,970	<sup>1</sup> 154,000	992	389	268	179	114	28
Assets, total..... mil. dol.....	251,314	46,699	15,680	13,622	19,046	23,731	53,616	69,011
Percent.....	100	19	6	5	8	11	23	27
Net profit, total..... mil. dol.....	4,220	497	264	214	301	477	870	1,598
Percent.....	100	12	6	5	7	11	21	38
1970								
Corporations..... number.....	<sup>2</sup> 202,710	<sup>2</sup> 200,000	1,202	533	366	289	218	102
Assets, total..... mil. dol.....	554,046	69,375	20,001	19,134	26,012	45,085	106,706	267,733
Percent.....	100	13	4	3	5	8	19	48
Net profit, total..... mil. dol.....	6,894	612	175	195	273	557	1,437	3,646
Percent.....	100	9	3	3	4	8	21	53

<sup>1</sup> Data derived from Internal Revenue Service; *Statistics of Income, 1960*. <sup>2</sup> Estimate.Source: Federal Trade Commission and Securities and Exchange Commission; *Quarterly Financial Report for Manufacturing Corporations*.



# No. 730. LARGEST INDUSTRIAL CORPORATIONS AND RETAILING COMPANIES—ASSETS, EMPLOYEES, INCOME, AND STOCKHOLDERS' EQUITY, BY RANK OF SALES: 1965 AND 1970

[Money figures in millions of dollars, employees in thousands, except percent. See headnote, table 737]

SALES GROUP	1965				1970			
	Assets <sup>1</sup>	Em- ployees <sup>2</sup>	Net income <sup>3</sup>	Stock- holders' equity <sup>4</sup>	Assets <sup>1</sup>	Em- ployees <sup>2</sup>	Net income <sup>3</sup>	Stock- holders' equity <sup>4</sup>
<b>INDUSTRIAL CORPORATIONS</b>								
First 500 largest.....	251,676	11,279	20,011	154,033	432,119	14,608	21,668	227,021
Lowest hundred.....	10,066	569	747	5,895	16,826	697	823	8,830
Second hundred.....	13,873	789	995	8,339	23,163	1,044	1,069	11,609
Third hundred.....	22,497	1,178	1,568	13,727	39,039	1,500	1,431	21,117
Fourth hundred.....	36,252	1,809	2,650	21,614	74,471	2,682	3,810	37,823
Highest hundred.....	168,989	6,934	14,055	104,458	278,620	8,706	14,535	147,642
Percent of total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Lowest hundred.....	4.0	5.0	3.7	3.8	3.9	4.8	3.8	3.9
Second hundred.....	5.5	7.0	5.0	5.4	5.4	7.1	4.9	5.1
Third hundred.....	8.9	10.4	7.8	8.9	9.0	10.3	6.6	9.3
Fourth hundred.....	14.4	16.0	13.3	14.0	17.2	18.2	17.6	16.7
Highest hundred.....	67.1	61.5	70.2	67.8	64.5	60.0	67.1	65.0
Second 500 largest.....	(NA)	(NA)	(NA)	(NA)	38,795	1,720	1,539	20,775
<b>RETAILING COMPANIES</b>								
50 largest.....	19,290	1,609	1,196	9,912	31,589	2,371	1,540	14,623
Lowest ten.....	1,546	120	72	673	1,500	151	78	751
Second ten.....	1,253	103	68	608	2,494	211	91	1,085
Third ten.....	2,270	180	119	1,071	4,510	294	129	1,753
Fourth ten.....	3,460	286	214	1,741	4,822	366	207	1,958
Highest ten.....	10,761	920	723	5,823	18,224	1,848	1,033	8,982
Percent of total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Lowest ten.....	8.0	7.5	6.0	6.8	4.8	6.4	5.1	5.2
Second ten.....	6.5	6.4	5.7	6.1	7.9	8.0	6.9	7.5
Third ten.....	11.8	11.2	9.9	10.8	14.3	12.4	8.4	12.1
Fourth ten.....	18.0	17.7	17.9	17.6	15.3	15.4	13.5	13.5
Highest ten.....	55.7	57.2	60.5	58.7	57.7	56.0	67.1	61.8

NA Not available. <sup>1</sup> Total assets employed in business at end of fiscal year, less depreciation and depletion.

<sup>2</sup> As of year end, or yearly average. <sup>3</sup> After taxes, special charges, and credits.

<sup>4</sup> Capital stock, surplus, and retained earnings (i.e., net worth) at end of fiscal year.

Source: Fortune, New York, N.Y.; adapted from *The Fortune Directory*. (Copyright, 1971, by Time Inc.)

# No. 731. LARGEST INDUSTRIAL CORPORATIONS—SELECTED FINANCIAL ITEMS, BY INDUSTRY: 1970

[Figures are medians for 500 largest public corporations based on sales in 1970. See headnote, table 737. For definition of median, see preface]

INDUSTRY	Assets per em- ployee	Sales per em- ployee	Sales per dollar of stock- holders' equity	Return on stock- holders' equity	Return on sales	CHANGE FROM 1969 IN—	
						Sales	Profit
<b>Total.....</b>	<b>\$1,000</b>	<b>\$1,000</b>	<b>Dollars</b>	<b>Percent</b>	<b>Percent</b>	<b>Percent</b>	<b>Percent</b>
	24,086	29,525	2.36	9.5	3.9	5.8	-6.4
Petroleum refining.....	106,381	92,583	1.40	10.3	6.0	9.7	-4.6
Mining (excl. mineral services).....	70,910	46,199	1.21	13.8	12.6	10.1	14.1
Tobacco.....	63,729	35,926	1.66	12.4	7.5	13.4	15.8
Chemicals.....	37,505	32,691	1.73	8.7	5.2	1.0	-15.5
Metal manufacturing.....	35,598	32,787	1.58	5.7	3.2	1.2	-23.2
Paper and wood products.....	32,478	32,684	1.70	6.8	3.9	3.4	-23.0
Pharmaceuticals.....	26,367	29,157	1.77	15.5	9.3	10.0	12.6
Soaps, cosmetics.....	25,552	38,502	2.77	15.7	7.1	10.0	9.2
Publishing and printing.....	25,330	28,751	1.19	11.4	5.3	5.4	-9.4
Food and beverages.....	25,010	52,632	3.91	12.2	2.7	9.2	10.4
Glass, cement, gypsum, concrete.....	24,201	25,046	1.80	7.6	4.2	4.0	-18.1
Shipbuilding, RR equip., mobile homes.....	23,048	31,890	1.69	9.8	4.2	6.8	8.6
Farm and industrial machinery.....	22,146	27,722	2.27	9.5	4.4	6.3	-1.5
Rubber.....	21,599	24,658	2.38	8.4	2.1	-0.6	-22.6
Motor vehicles and parts.....	20,731	27,583	2.82	6.0	2.3	-1.1	-47.6
Electrical, electronic, and other equipment.....	19,867	26,038	2.72	10.1	3.9	7.0	-5.1
Food processing.....	19,075	25,155	1.93	13.1	7.9	5.4	4.6
Textiles.....	18,366	18,718	1.96	7.9	3.3	8.2	-27.9
Appliances, electronics.....	17,880	24,216	2.54	10.2	3.9	5.0	-8.3
Aircraft and parts.....	17,819	27,486	3.61	8.5	2.3	-4.2	-22.6
Textiles.....	16,314	20,541	2.46	7.0	2.8	2.4	-9.0
Apparel.....	11,530	18,329	3.20	10.9	3.1	12.0	4.3

Source: Fortune, New York, N.Y.; *The Fortune Directory*. (Copyright, 1971, by Time Inc.)

# No. 732. ACTIVE CORPORATIONS—INCOME TAX RETURNS, BY ASSET SIZE AND INDUSTRY: 1968

[Money figures in millions of dollars. See headnote and footnotes, table 594. See also *Historical Statistics, Colonial Times to 1967*, series V 98-127]

ITEM	Total	ASSET SIZE-CLASS							
		Under \$100 thousand	\$100-\$999.9 thousand	\$1-\$9.9 million	\$10-\$24.9 million	\$25-\$49.9 million	\$50-\$99.9 million	\$100-\$249.9 million	\$250 million and over
<b>All industrial divisions:<sup>1</sup></b>									
Number of returns.....	1,541,670	890,176	552,035	81,802	9,125	3,472	1,839	1,280	1,041
Total assets or liabilities.....	2,215,625	30,032	104,343	215,003	141,238	120,613	127,056	197,467	1,218,373
Total receipts.....	1,507,786	94,663	304,787	261,662	81,692	60,898	62,739	108,283	533,262
Net income less deficit <sup>2</sup> .....	85,962	1,622	8,875	10,068	4,319	3,606	3,809	7,317	46,345
Income tax <sup>3</sup> .....	37,810	888	3,131	5,040	2,105	1,656	1,689	3,149	19,702
<b>Agriculture, forestry, fisheries:</b>									
Number of returns.....	31,248	16,614	13,308	1,287	29	7	2	-	1
Total assets or liabilities.....	8,343	601	3,944	2,579	424	229	175	-	390
Total receipts.....	9,451	1,298	4,277	2,738	263	150	128	-	587
<b>Mining:</b>									
Number of returns.....	12,813	6,754	4,819	1,026	103	40	30	22	10
Total assets or liabilities.....	19,813	224	1,691	2,801	1,696	1,733	2,047	3,401	6,228
Total receipts.....	14,550	542	2,159	2,232	1,054	1,184	1,160	2,031	4,248
<b>Construction:</b>									
Number of returns.....	125,999	79,716	41,058	4,956	185	51	13	18	2
Total assets or liabilities.....	35,896	2,521	12,429	11,125	2,718	1,600	908	2,786	1,750
Total receipts.....	72,263	10,043	30,622	20,955	3,709	2,636	1,557	2,956	491
<b>Manufacturing:</b>									
Number of returns.....	191,915	86,028	83,377	19,441	1,549	585	372	301	262
Total assets or liabilities.....	500,564	3,158	27,158	40,582	23,931	20,513	25,929	45,223	305,070
Total receipts.....	648,965	17,900	68,290	94,163	35,563	26,903	32,049	57,603	321,438
<b>Transportation, communication, electric, gas, sanitary service:</b>									
Number of returns.....	65,554	40,245	21,370	3,170	310	117	92	88	153
Total assets or liabilities.....	238,568	1,277	6,281	8,374	4,749	4,063	6,686	14,549	192,589
Total receipts.....	112,587	3,817	9,575	8,668	3,855	2,652	3,884	6,454	73,082
<b>Wholesale and retail trade:</b>									
Number of returns.....	471,987	267,691	185,780	17,538	597	191	93	61	36
Total assets or liabilities.....	162,115	9,985	53,267	38,326	9,005	6,563	6,166	9,702	29,043
Total receipts.....	451,898	42,092	166,746	111,276	24,884	17,268	13,700	24,148	51,784
<b>Finance, insurance, real estate:<sup>4</sup></b>									
Number of returns.....	407,199	215,627	150,951	29,569	6,115	2,404	1,207	762	564
Total assets or liabilities.....	1,202,918	7,649	45,142	91,794	95,156	83,480	83,083	117,582	678,133
Total receipts.....	146,905	6,419	10,127	12,885	9,208	8,222	9,048	12,844	78,663
<b>Services:</b>									
Number of returns.....	228,904	171,870	51,866	4,793	236	68	30	28	13
Total assets or liabilities.....	47,234	4,562	14,345	11,002	3,588	2,373	2,061	4,134	5,170
Total receipts.....	51,046	12,502	18,048	9,213	3,166	2,270	1,223	2,248	2,884

- Represents zero. <sup>1</sup> Includes data not shown separately.

<sup>2</sup> Excludes wholly tax-exempt interest but includes constructive taxable income from related foreign corporations.

<sup>3</sup> After adjustments for investment credit. Includes tax surcharge. <sup>4</sup> Includes lessors of real property.

Source: Dept. of the Treasury, Internal Revenue Service; *Statistics of Income, 1968, Corporation Income Tax Returns*.

# No. 733. AVERAGE ANNUAL CHANGE IN STOCK OF FIXED CAPITAL PER EMPLOYED PERSON IN THE PRIVATE ECONOMY: 1947 TO 1968

[In percent. Refers to constant (1968) dollar private purchases of plant and equipment with an allowance for retirement. Covers all business capital but excludes religious, educational, hospital, and other institutional construction.]

ITEM	1947-68	1947-57	1957-68
Total.....	2.6	2.8	2.2
Plant.....	1.8	1.1	1.9
Equipment.....	3.5	5.0	2.6

Source: Dept. of Labor and Dept. of Commerce; unpublished data.

## No. 734. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1950 TO 1971

(In billions of dollars. Excludes Alaska and Hawaii. Excludes expenditures of agricultural business, professions, institutions, and real estate firms, and outlays charged to current account)

INDUSTRY GROUP	1950	1955	1960	1965	1967	1968	1969	1970	1971 <sup>1</sup>
All industries.....	20.21	29.53	36.75	54.42	65.47	67.76	75.56	79.71	81.85
Manufacturing industries.....	7.89	11.89	15.09	23.44	28.51	28.37	31.68	31.95	30.60
Durable goods industries.....	2.94	5.41	7.23	11.50	14.06	14.12	15.96	15.80	14.67
Primary metal.....	.72	1.02	1.82	2.54	3.24	3.36	3.23	3.24	2.98
Electrical machinery and equipment.....	.25	.54	.90	1.12	1.70	1.78	2.03	2.27	2.13
Machinery, except electrical.....	.41	.80	1.25	2.31	2.94	2.84	3.44	3.47	3.10
Transportation equipment.....	.57	1.26	1.25	2.54	2.72	2.48	2.76	2.43	2.18
Motor vehicles.....	.49	.97	.79	1.89	1.54	1.36	1.65	1.59	1.52
Stone, clay, and glass.....	.30	.64	.75	.92	.96	.86	1.07	.99	.94
Other durables.....	.70	1.16	1.26	2.07	2.50	2.82	3.44	3.41	3.34
Nonmanufacturing industries.....	4.45	6.48	7.85	11.94	14.45	14.25	15.72	16.15	16.93
Construction.....	.78	.90	1.34	1.83	2.08	2.21	2.59	2.84	2.86
Transportation.....	.33	.51	.77	1.22	1.66	1.32	1.58	1.65	1.39
Chemical.....	.77	1.02	1.55	2.73	3.06	2.83	3.10	3.44	3.86
Petroleum.....	1.63	3.08	2.89	4.03	5.08	5.25	5.63	5.62	6.01
Rubber.....	.14	.20	.31	.56	.67	.98	1.09	.94	.79
Other nondurables.....	.80	.77	.99	1.58	1.99	1.66	1.73	1.66	1.75
Nonmanufacturing industries.....	12.82	17.64	21.66	30.98	36.90	39.40	43.88	47.76	51.25
Mining.....	.84	1.31	1.30	1.46	1.65	1.63	1.86	1.89	1.99
Railroad.....	1.18	1.02	1.16	1.99	1.86	1.45	1.86	1.78	1.73
Air and other transportation.....	1.19	1.56	1.96	2.90	3.77	4.15	4.19	4.26	3.27
Public utilities.....	3.24	4.03	5.24	6.13	8.74	10.20	11.61	13.14	15.32
Electric.....	2.07	2.87	3.62	4.43	6.75	7.66	8.94	10.66	12.89
Communication.....	1.14	2.11	3.24	5.30	6.34	6.83	8.30	10.10	11.23
Commercial and other.....	5.22	7.63	8.75	13.19	14.59	15.14	16.05	16.59	17.71

<sup>1</sup> Estimates based on expected capital expenditures as reported by business in late Apr. and May 1971.<sup>2</sup> Comprises trade, service, construction, finance and insurance.Source: Dept. of Commerce, Office of Business Economics, and Securities and Exchange Commission; in *Survey of Current Business*.

## No. 735. NET CHANGE IN BUSINESS INVENTORIES: 1945 TO 1970

(In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Measures change in physical inventories, valued at average prices current during year. Difference between change in business inventories as thus measured and change in book value of inventories constitutes inventory valuation adjustment. Minus sign (-) denotes decrease)

ITEM	1945	1950	1955	1960	1965	1967	1968	1969	1970 (prel.)
Total.....	-1,034	6,789	5,953	3,569	9,620	8,193	7,621	8,459	3,500
Farm.....	-439	759	487	233	973	737	96	412	600
Nonfarm.....	-595	6,000	5,466	3,336	8,647	7,456	7,525	8,047	2,900
Corporate.....	-1,027	4,823	4,927	3,081	7,907	7,252	7,004	7,240	(NA)
Noncorporate.....	432	1,177	559	305	740	204	521	807	(NA)
Change in book value.....	75	12,059	7,420	3,163	10,744	8,873	11,551	14,295	(NA)
Corporate.....	-463	9,738	6,063	2,839	9,821	8,881	10,299	12,664	(NA)
Noncorporate.....	538	2,271	757	324	1,120	492	1,252	1,631	(NA)
Inventory valuation adj.....	-670	-6,059	-1,934	173	-2,097	-1,417	-4,026	-6,248	-5,500
Corporate.....	-564	-4,965	-1,736	192	-1,717	-1,129	-3,235	-6,424	-4,900
Noncorporate.....	-106	-1,094	-198	-19	-380	-288	-731	-824	-600
Nonfarm, by industry groups:									
Manufacturing.....	-1,556	2,164	2,626	1,347	3,013	4,168	3,924	3,953	1,100
Wholesale trade.....	-1,121	5,496	4,008	1,015	4,806	4,662	5,678	7,236	3,900
Retail trade.....	-435	-3,332	-1,382	173	-893	-494	-1,754	-3,283	-2,800
Change in book value.....	560	1,356	1,115	372	1,101	1,172	640	1,257	1,900
Inventory valuation adj.....	665	2,458	1,195	312	1,615	1,369	1,343	2,253	2,500
Corporate.....	-105	-1,102	-80	-139	-514	-197	-708	-996	-800
Noncorporate.....	272	2,131	2,092	1,381	2,669	377	1,423	1,519	1,000
Change in book value.....	358	3,351	2,294	1,524	3,254	951	2,619	2,934	2,300
Inventory valuation adj.....	-88	-1,220	-202	-143	-585	-574	-1,196	-1,415	-1,300
All other.....	129	349	-347	435	964	1,739	1,638	1,318	900
Change in book value.....	173	754	-77	312	1,069	1,891	1,906	1,872	1,700
Inventory valuation adj.....	-44	-405	-270	123	-105	-162	-368	-554	-800

NA Not available.

Source: Dept. of Commerce, Office of Business Economics; *The National Income and Product Accounts of the United States, 1921-1966* and *Survey of Current Business*, July 1970 and February 1971.

## No. 736. MANUFACTURING AND TRADE—SALES AND INVENTORIES: 1950 TO 1970

[Money figures in billions of dollars. Prior to 1960, excludes Alaska and Hawaii]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
Sales, total.....	463	620	729	963	1,068	1,164	1,245	1,279
Manufacturing.....	224	318	370	492	549	605	667	687
Durable goods.....	106	169	190	267	300	332	365	362
Nondurable goods.....	117	149	180	225	249	273	292	305
Retail trade.....	147	184	220	284	314	339	362	365
Durable goods.....	54	67	71	94	100	110	113	110
Nondurable goods.....	93	117	149	190	214	229	239	255
Merchant wholesalers.....	92	119	140	187	205	220	237	247
Durable goods.....	38	51	59	83	90	100	110	112
Nondurable goods.....	55	67	81	104	115	120	127	135
Inventories (book value), total <sup>1</sup> .....	60	80	95	121	143	153	165	171
Manufacturing.....	31	45	54	68	83	89	96	100
Durable goods.....	16	26	32	42	54	57	64	66
Nondurable goods.....	16	19	21	26	29	31	32	34
Retail trade.....	19	23	27	34	39	42	45	46
Durable goods.....	8	11	12	15	17	19	20	19
Nondurable goods.....	11	12	15	19	22	23	25	26
Merchant wholesalers.....	9	12	14	18	22	23	24	27
Durable goods.....	5	6	8	11	13	13	15	16
Nondurable goods.....	5	5	6	8	9	9	10	11
Inventory-sales ratio, total <sup>2</sup> .....	1.36	1.47	1.56	1.45	1.57	1.52	1.53	1.68
Manufacturing.....	1.48	1.62	1.76	1.60	1.77	1.70	1.69	1.76
Durable goods.....	1.55	1.75	2.07	1.81	2.08	2.00	1.99	2.15
Nondurable goods.....	1.41	1.47	1.42	1.34	1.40	1.33	1.31	1.30
Retail trade.....	1.38	1.43	1.45	1.39	1.46	1.43	1.47	1.47
Durable goods.....	1.52	1.79	2.02	1.86	2.03	1.97	2.05	2.13
Nondurable goods.....	1.29	1.22	1.18	1.16	1.19	1.17	1.19	1.18
Merchant wholesalers.....	1.07	1.13	1.22	1.14	1.21	1.20	1.19	1.23
Durable goods.....	1.29	1.36	1.60	1.49	1.61	1.54	1.53	1.61
Nondurable goods.....	0.91	0.95	0.89	0.87	0.90	0.91	0.89	0.92

<sup>1</sup> Seasonally adjusted, end-of-year data. <sup>2</sup> Average inventories to average monthly sales. Average inventories based on weighted averages of end-of-month figures.

Source: Dept. of Commerce, Office of Business Economics; *Business Statistics, 1967* and *Survey of Current Business*.

## No. 737. LARGEST INDUSTRIAL CORPORATIONS AND RETAILING COMPANIES—SALES, BY GROUP RANK: 1955 TO 1970

[Excludes large privately owned companies that do not publish sales. Includes sales of subsidiaries when they are published. Industrial corporations must derive more than 50 percent of sales from manufacturing. Retailing companies must derive more than 50 percent of sales from retailing. All figures are in millions of dollars. Includes all operating revenues for fiscal years ending not later than March or April following year stated; beginning 1969, excludes wholesalers]

SALES GROUP	VOLUME OF SALES (mil. dol.)					PERCENT DISTRIBUTION				
	1955	1960	1965	1969	1970	1955	1960	1965	1969	1970
INDUSTRIAL CORPORATIONS										
First 500 largest.....	161,399	204,724	298,059	444,719	463,929	100.0	100.0	100.0	100.0	100.0
Lowest hundred.....	6,292	8,474	12,497	18,499	19,920	3.9	4.1	4.2	4.2	4.3
Second hundred.....	8,000	11,699	17,651	26,435	28,824	5.3	5.7	5.9	5.9	6.2
Third hundred.....	13,734	18,624	27,687	41,174	43,036	8.5	9.0	9.3	9.3	9.4
Fourth hundred.....	24,458	32,637	47,237	78,210	82,686	15.2	15.9	15.8	17.6	17.8
Highest hundred.....	108,306	133,390	192,987	280,391	288,863	67.1	65.2	64.7	63.0	62.3
Second 500 largest.....	(NA)	15,658	(NA)	45,860	48,274	(X)	(X)	(X)	(X)	(X)
RETAILING COMPANIES										
50 largest.....	25,610	35,702	48,958	68,041	73,558	100.0	100.0	100.0	100.0	100.0
Lowest ten.....	1,168	2,221	3,264	4,053	4,360	4.6	6.2	6.7	6.0	5.9
Second ten.....	1,719	2,818	4,505	6,273	6,828	6.7	7.9	9.2	9.2	9.3
Third ten.....	2,704	4,100	6,050	8,533	9,035	10.6	11.5	12.4	12.5	12.8
Fourth ten.....	4,520	6,436	8,961	12,559	13,888	17.6	18.0	18.3	18.5	18.9
Highest ten.....	15,490	20,126	26,177	36,623	39,446	60.5	56.4	53.5	53.8	53.6

NA Not available. X Not applicable.

Source: Fortune, New York, N.Y.; adapted from *The Fortune Directory*. (Copyright, 1971, by Time Inc.)

## No. 738. CORPORATE PROFITS, TAXES, AND DIVIDENDS: 1950 TO 1970

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Covers corporations organized for profit. Represents profits accruing to U.S. residents, without deduction of depletion charges and exclusive of capital gains and losses; intercorporate dividends from profits of domestic corporations are eliminated; net receipts of dividends and branch profits from abroad are added]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
Profits before taxes <sup>1</sup> .....	42,634	48,607	49,712	77,787	79,815	88,740	91,221	82,100
Less: Income tax liability <sup>1</sup> .....	17,770	21,616	23,032	31,326	33,177	40,560	42,670	37,800
Equals: Profits after taxes <sup>1</sup> .....	24,864	26,991	26,680	46,461	46,638	48,180	48,552	44,290
Less: Net dividends <sup>2</sup> .....	8,538	10,478	13,437	19,808	21,385	23,312	24,667	25,203
Equals: Undistributed profits.....	16,026	16,513	13,243	26,653	25,253	24,868	23,875	19,080
Capital consumption allowances <sup>3</sup> .....	8,800	17,403	24,908	36,406	42,060	46,487	49,752	63,500
Cash flow <sup>4</sup> .....	24,826	33,916	38,151	63,059	68,213	71,355	78,627	72,500

<sup>1</sup> Refers to Federal and State corporate income and excess profits taxes.

<sup>2</sup> Represents amounts disbursed to U.S. residents, measured after elimination of intercorporate dividends. Excludes capital gain dividends paid by investment companies.

<sup>3</sup> Includes depreciation and accidental damages.

<sup>4</sup> Undistributed profits plus capital consumption allowances.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*.

## No. 739. CORPORATE PROFITS, BY INDUSTRY: 1950 TO 1969

[In millions of dollars. 1950 excludes Alaska and Hawaii. See headnote, table 738]

INDUSTRY	BEFORE TAXES					AFTER TAXES				
	1950	1960	1965	1968	1969	1950	1960	1965	1968	1969
All industries.....	42,634	49,712	77,787	88,740	91,221	24,864	26,680	46,461	48,180	48,552
Agric., for., and fisheries.....	175	65	201	208	221	87	12	102	88	87
Mining.....	1,490	983	1,063	885	724	1,115	755	789	599	385
Manufacturing.....	574	516	1,477	1,970	2,087	325	224	962	1,220	1,234
Construction.....	24,115	24,128	40,204	44,081	45,008	13,290	12,631	23,022	22,968	23,083
Transportation.....	8,409	4,954	8,830	11,589	11,801	3,743	2,531	5,518	0,810	6,923
Fin., ins., and real estate.....	4,070	8,816	10,025	12,757	13,783	2,597	4,722	5,599	5,969	6,151
Transportation.....	2,001	901	2,218	1,124	912	1,107	295	1,369	441	105
Comm. and pub. utilities.....	2,253	6,588	8,953	9,968	10,046	1,290	3,225	4,941	5,004	5,058
Services.....	563	883	1,556	2,192	2,178	326	406	889	1,115	993
Rest of the world.....	984	1,880	3,270	3,966	4,463	984	1,880	3,270	3,966	4,463

Source: Dept. of Commerce, Office of Business Economics; *The National Income and Product Accounts of the United States, 1929-1965* and *Survey of Current Business*, July issues.

## No. 740. PUBLIC UTILITY CORPORATIONS—REVENUES, PROFITS, AND DIVIDENDS: 1945 TO 1969

[In millions of dollars]

PUBLIC UTILITY	1945	1950	1955	1960	1965	1966	1967	1968	1969
<b>Railroad: <sup>1</sup></b>									
Operating revenue.....	8,902	9,473	10,106	9,514	10,208	10,661	10,377	10,859	11,451
Profits before taxes.....	756	1,385	1,341	648	979	1,094	385	678	683
Profits after taxes.....	450	784	927	445	815	906	310	555	461
Dividends.....	246	312	448	385	468	502	538	515	488
<b>Electric power: <sup>2</sup></b>									
Operating revenue.....	3,682	5,528	8,360	11,906	15,816	16,959	17,954	19,421	21,075
Profits before taxes.....	905	1,313	2,304	3,163	4,213	4,414	4,547	4,789	4,938
Profits after taxes.....	534	822	1,244	1,793	2,586	2,749	2,908	3,002	3,186
Dividends.....	407	619	942	1,307	1,838	1,938	2,066	2,201	2,299
<b>Telephone: <sup>3</sup></b>									
Operating revenue.....	1,970	3,342	5,425	8,111	11,320	12,420	13,311	14,430	16,057
Profits before taxes.....	433	580	1,282	2,326	3,185	3,537	3,694	3,951	4,098
Profits after taxes.....	174	331	638	1,155	1,718	1,903	1,997	1,961	2,080
Dividends.....	162	276	496	806	1,153	1,248	1,363	1,428	1,493

<sup>1</sup> Class I freight and passenger railroads. <sup>2</sup> Class A and B electric utilities.

<sup>3</sup> Includes operating revenue of the Federal Reserve Bank of New York (including the 20 operating subsidiaries of the Federal Reserve Bank of New York and Telegraph Company) and of 2 affiliates.

Source: Board of Governors of the Federal Reserve System; *Federal Reserve Bulletin*.

# No. 741. MANUFACTURING CORPORATIONS—SALES, PROFITS, AND STOCKHOLDERS' EQUITY: 1950 TO 1970

[In billions of dollars. Prior to 1969, excludes newspapers. For explanation of the series and comparability of the data, see Federal Trade Commission, Commission combined report, *Quarterly Financial Report for Manufacturing Corporations*, 1969.

YEAR	ALL MANUFACTURING CORPORATIONS				DURABLE GOODS INDUSTRIES				NONDURABLE GOODS INDUSTRIES			
	Sales (net)	Profits		Stockholders' equity <sup>1</sup>	Sales (net)	Profits		Stockholders' equity <sup>1</sup>	Sales (net)	Profits		Stockholders' equity <sup>1</sup>
		Before taxes	After taxes			Before taxes	After taxes			Before taxes	After taxes	
1950....	181.0	23.2	12.9	83.3	86.8	12.9	6.7	39.9	95.1	10.3	6.1	43.5
1955....	278.4	28.6	15.1	120.1	142.1	16.5	8.1	58.8	136.3	12.1	7.0	61.3
1960....	345.7	27.5	15.2	165.4	173.9	14.0	7.0	82.3	171.8	13.5	8.2	83.1
1963....	412.7	34.9	19.5	189.7	209.0	18.5	9.5	93.3	203.6	16.4	10.0	96.3
1964....	443.1	39.6	23.2	199.8	226.3	21.2	11.6	98.5	216.8	18.3	11.6	101.3
1965....	492.2	46.5	27.5	211.7	257.0	28.2	14.5	105.4	235.2	20.3	13.0	106.3
1966....	554.2	51.8	30.9	230.3	291.7	29.2	16.4	115.2	262.4	22.6	14.6	116.1
1967....	575.4	47.8	29.0	247.6	300.6	25.7	14.6	125.0	274.8	22.0	14.4	122.6
1968....	631.9	55.4	32.1	265.9	335.5	30.6	16.5	135.0	298.4	24.8	15.5	130.3
1969....	694.6	58.1	33.2	289.9	366.5	31.5	18.9	147.6	323.1	26.6	16.4	142.3
1970....	708.8	48.1	28.6	306.8	363.1	23.0	12.9	155.1	346.7	25.2	15.7	151.7

<sup>1</sup> Annual data are average equity for the year (using four end-of-quarter figures).

Source: Executive Office of the President, Council of Economic Advisers. In *Economic Report of the President*, February 1971. Data from Federal Trade Commission and Securities and Exchange Commission.

# No. 742. MANUFACTURING CORPORATIONS—RELATION OF PROFITS AFTER TAXES TO STOCKHOLDERS' EQUITY AND TO SALES: 1960 TO 1970

[Averages of quarterly figures at annual rates. Prior to 1969 excludes newspapers. For explanation of the series and comparability of the data, see Federal Trade Commission and Securities and Exchange Commission, *Quarterly Financial Report for Manufacturing Corporations*, Based on 1969.

INDUSTRY GROUP	RATIOS OF PROFITS TO STOCKHOLDERS' EQUITY (percent)					PROFITS PER DOLLAR OF SALES (cents)				
	1960	1965	1968	1969	1970	1960	1965	1968	1969	1970
Total.....	9.2	13.0	12.1	11.5	9.3	4.4	5.6	5.1	4.8	4.0
Durable goods <sup>1</sup> .....	8.5	13.8	12.2	11.4	8.3	4.0	5.7	4.9	4.6	3.6
Motor vehicles and equipment.....	13.5	19.5	15.1	12.6	6.1	5.9	7.2	5.6	4.7	2.4
Aircraft and parts.....	7.3	15.2	14.2	10.6	6.8	1.4	3.3	3.2	3.0	2.0
Electrical machinery, equip. and supplies.....	9.5	13.5	12.2	11.1	9.1	3.5	4.8	4.3	3.9	3.3
Machinery, except electrical.....	7.5	14.1	12.3	12.2	9.0	3.0	6.2	5.5	5.4	4.6
Fabricated metal products.....	5.6	13.2	11.7	11.3	8.6	2.4	4.5	4.1	3.8	3.1
Primary iron and steel industries.....	7.2	9.8	7.6	7.6	4.3	5.1	5.7	4.6	4.4	2.5
Primary nonferrous metal industries.....	7.1	11.9	10.8	12.2	10.7	5.4	7.3	6.2	6.0	6.1
Stone, clay, and glass products.....	0.9	10.3	9.2	9.2	6.0	6.6	5.9	5.2	4.7	3.4
Furniture and fixtures.....	6.5	13.4	12.2	12.6	7.0	2.1	3.7	3.4	3.5	2.5
Lumber and wood products, except furniture.....	3.6	10.1	14.6	13.0	5.9	1.7	4.0	5.3	4.8	2.5
Instruments and related products.....	11.6	17.5	16.6	15.6	14.2	5.9	8.6	8.1	7.8	7.3
Misc. manufacturing, including ordnance.....	9.2	10.7	12.4	11.0	10.0	3.5	3.8	4.0	3.8	3.4
Nondurable goods <sup>1</sup> .....	9.8	12.2	11.9	11.5	10.3	4.8	5.5	5.2	5.0	4.5
Food and kindred products.....	8.7	10.7	10.8	10.9	10.8	2.3	2.7	2.6	2.5	2.5
Tobacco manufactures.....	13.4	13.5	14.4	14.5	15.7	5.6	5.9	5.5	5.2	5.8
Textile mill products.....	5.8	10.9	8.8	7.9	5.1	2.5	3.8	3.1	2.6	1.0
Apparel and related products.....	7.7	12.7	13.0	11.9	9.3	1.4	2.3	2.4	2.3	1.0
Paper and allied products.....	8.5	9.4	9.7	10.1	7.0	5.0	4.9	4.7	4.8	3.4
Printing and publishing <sup>2</sup> .....	10.6	14.2	12.5	12.6	11.2	3.6	4.8	4.1	4.7	4.2
Chemicals and allied products.....	12.2	15.2	13.3	12.8	11.5	7.5	7.9	6.8	6.5	5.9
Other industries.....	10.1	11.8	12.3	11.7	11.0	9.3	11.1	10.7	10.1	9.3
.....	9.1	11.7	12.3	10.3	7.1	3.6	4.3	4.5	3.8	2.7
.....	6.3	11.0	13.0	9.3	9.4	1.6	2.8	3.3	2.6	2.6

<sup>1</sup> Includes industries not shown separately.

<sup>2</sup> Prior to 1969, excludes newspapers.

Source: Executive Office of the President, Council of Economic Advisers. In *Economic Report of the President*, February 1971. Data from Federal Trade Commission and Securities and Exchange Commission.

# No. 743. MERGERS AND ACQUISITIONS—MANUFACTURING AND MINING CONCERNS ACQUIRED: 1920 TO 1970

[Total figures for 1920-1970 are reported by Moody's Investors Service, Inc. and Standard & Poor's Corporation. Many acquisitions reported in these sources. Includes partial acquisitions when they comprise whole concerns. See also *Historical Statistics, Colonial Times to 1957*, series V 30]

PERIOD	Total	Year	Total	LARGE CONCERNS ACQUIRED <sup>1</sup>					
				Number			Assets (mil. dol.)		
				Total	Horizontal and vertical mergers	Conglomerate mergers	Total	Horizontal and vertical mergers	Conglomerate mergers
1920-1924	2,235	1960	844	62	19	43	1,689	566	1,122
1925-1929	4,583	1962	853	73	25	48	2,290	1,051	1,240
1930-1934	1,687	1963	861	71	22	49	2,984	1,187	1,796
1935-1939	577	1964	854	90	30	60	2,736	974	1,762
1940-1944	906	1965	1,008	90	27	63	3,837	789	3,048
1945-1949	1,505	1966	965	98	22	76	4,153	629	3,525
1950-1954	1,424	1967	1,496	167	28	139	9,090	1,590	7,499
1955-1959	3,365	1968	2,407	206	33	173	13,311	1,604	11,807
1960-1964	4,366	1969	2,307	152	29	123	11,030	2,990	8,045
1965-1969	8,213	1970	<sup>2</sup> 1,344	<sup>2</sup> 88	<sup>2</sup> 9	<sup>2</sup> 79	<sup>2</sup> 5,447	<sup>2</sup> 1,073	<sup>2</sup> 4,375

<sup>1</sup> Includes all concerns with assets of \$10 million and over. <sup>2</sup> Preliminary.

# No. 744. MERGERS AND ACQUISITIONS—MANUFACTURING AND MINING CONCERNS ACQUIRED, BY INDUSTRY GROUP OF ACQUIRING CONCERN: 1948 TO 1970

[See headnote, table 743]

ITEM	1948-1960, total	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970 (prel.)
Total	5,932	954	853	861	854	1,008	995	1,496	2,407	2,307	1,344
Mining	304	50	32	55	39	47	42	56	64	94	76
Manufacturing	5,220	780	744	716	712	826	841	1,261	1,943	1,766	1,032
Food and kindred products	595	73	56	67	69	86	69	95	133	155	108
Tobacco manufactures	24	5	5	6	6	5	9	5	5	13	9
Textiles and apparel	340	51	59	62	55	76	64	67	132	100	45
Lumber and furniture	141	15	21	29	12	24	29	40	82	75	47
Paper and allied products	268	28	23	16	14	27	21	36	44	47	29
Printing and publishing	114	46	31	31	24	30	23	33	60	78	37
Chemicals	519	86	108	78	103	89	105	123	153	145	102
Petroleum	118	10	25	14	19	24	13	10	12	14	7
Rubber and plastics products	74	18	15	14	13	20	15	29	45	30	25
Leather products	42	7	9	14	9	6	6	7	29	27	16
Stone, clay, and glass products	212	24	22	15	15	24	27	35	68	68	41
Primary metals	275	34	36	35	39	28	33	95	135	105	55
Fabricated metal products	415	57	32	46	45	63	50	87	143	128	54
Machinery, except electrical	755	87	73	88	72	87	102	155	259	214	155
Electrical machinery	543	122	113	109	116	117	145	267	332	309	145
Transportation equipment	445	47	66	46	56	59	64	103	133	121	76
Professional and scientific instr.	203	50	42	28	34	36	50	92	133	96	49
Miscellaneous manufactures	180	20	18	26	11	25	16	22	50	48	33
Nonmanufacturing	398	124	77	90	103	135	112	179	395	447	236

# No. 745. MERGERS AND ACQUISITIONS—MANUFACTURING AND MINING CONCERNS ACQUIRED, BY SIZE OF ASSETS OF ACQUIRING CONCERN: 1948 TO 1970

[See headnote, table 743]

ASSETS OF ACQUIRING CONCERN (mil. dol.)	1948-1959		1960-1966		1967		1968		1969		1970 (prel.)	
	Firms acquired	Per cent	Firms acquired	Per cent	Firms acquired	Per cent	Firms acquired	Per cent	Firms acquired	Per cent	Firms acquired	Per cent
Total	5,138	100.0	6,369	100.0	1,496	100.0	2,407	100.0	2,307	100.0	1,344	100.0
Under 1.0	404	9.6	636	10.0	59	3.9	144	6.0	208	9.0	173	13.2
1.0-4.9	631	12.3	854	13.1	193	12.9	364	15.1	395	17.1	132	9.8
5.0-9.9	636	12.4	795	12.5	157	10.5	250	10.4	229	10.0	106	7.9
10.0-49.9	1,760	34.3	1,979	31.1	480	32.1	816	33.9	688	29.8	336	25.0
50.0 and over	1,617	31.5	2,125	33.4	607	40.6	833	34.6	787	34.1	692	44.0

Source of tables 743-745: Federal Trade Commission; *Report on Corporate Mergers and Acquisitions, 1955 and Current Trends in Merger Activity, 1970*.

# No. 746. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES: 1946 TO 1970

[Excludes Alaska and Hawaii. Excludes all railroad failures. Excludes real estate and financial companies. Includes voluntary discontinuances with loss to creditors and small concerns forced out of business with insufficient assets to cover all claims. See also *Historical Statistics, Colonial Times to 1967*, series V 1-3]

YEARLY AVERAGE ON YEAR	Total con- cerns in busi- ness <sup>1</sup> (1,000)	FAILURES <sup>2</sup>				YEAR	Total con- cerns in busi- ness <sup>1</sup> (1,000)	FAILURES <sup>2</sup>			
		Num- ber	Rate per 10,000 con- cerns	Current liabili- ties <sup>3</sup> (mil. dol.)	Ave- rage liabili- ty			Num- ber	Rate per 10,000 con- cerns	Current liabili- ties <sup>3</sup> (mil. dol.)	Ave- age liabili- ty
1946-1950....	2,493	5,652	21	213	\$44,733	1960.....	2,708	15,445	57	930	\$60,772
1951-1955....	2,635	9,317	35	370	39,322	1961.....	2,641	17,075	64	1,090	63,843
1956-1960....	2,674	14,177	53	708	49,576	1962.....	2,583	15,782	61	1,214	70,898
1961-1965....	2,665	14,849	57	1,261	88,219	1963.....	2,544	14,374	56	1,353	94,100
1966-1970....	2,481	10,993	44	1,324	121,296	1964.....	2,524	13,501	53	1,320	98,464
1950.....	2,687	9,162	34	248	27,099	1965.....	2,527	13,514	53	1,322	97,800
1955.....	2,633	10,969	42	440	40,988	1966.....	2,520	13,061	52	1,368	106,091
1956.....	2,629	12,686	48	563	44,356	1967.....	2,519	12,364	49	1,265	102,332
1957.....	2,652	13,739	52	615	44,784	1968.....	2,481	9,636	39	941	97,654
1958.....	2,675	14,964	56	728	48,667	1969.....	2,444	9,154	37	1,142	124,767
1959.....	2,708	14,053	52	693	49,300	1970....	2,442	10,743	44	1,888	175,638

<sup>1</sup> Data represent number of names listed in July issue of *Dun & Bradstreet Reference Book*. See table 748 for class of industries covered.

<sup>2</sup> Includes concerns discontinuing following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court.

<sup>3</sup> Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.

Source: *Dun & Bradstreet, Inc., New York, N.Y.; The Failure Record Through 1969*, and unpublished data.

# No. 747. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY STATES: 1969 AND 1970

STATE	NUMBER <sup>1</sup>		CURRENT LIABILITIES <sup>1</sup> (\$1,000)		STATE	NUMBER <sup>1</sup>		CURRENT LIABILITIES <sup>1</sup> (\$1,000)	
	1969	1970	1969	1970		1969	1970	1969	1970
U.S. <sup>2</sup> .....	9,154	10,748	1,142,113	1,887,754	S.A.—Con.				
N.E. ....	518	684	66,620	157,072	Va. ....	113	133	9,851	12,893
Maine.....	28	57	1,648	2,035	W. Va. ....	73	62	8,270	3,736
N.H. ....	50	32	4,220	3,340	N.C. ....	71	78	8,521	70,593
Vt. ....	10	10	601	925	S.C. ....	39	24	2,415	4,738
Mass.....	271	359	45,001	121,738	Ga. ....	208	180	13,770	26,106
R.I. ....	93	122	7,794	15,362	Fla. ....	351	285	36,318	44,012
Conn. ....	66	104	7,386	12,772	E.S.C. ....	293	372	39,183	74,059
M.A. ....	2,033	2,339	356,707	644,536	Ky. ....	49	85	3,877	9,958
N.Y. ....	1,313	1,429	250,948	416,160	Tenn. ....	123	170	23,024	48,090
N.J. ....	343	463	53,141	142,196	Ala. ....	85	71	8,448	6,480
Pa. ....	377	447	52,618	86,180	Miss. ....	36	46	4,134	9,631
E.N.C. ....	1,401	1,956	169,445	226,471	W.S.C. ....	648	860	130,689	193,783
Ohio.....	529	849	44,406	61,646	Ark. ....	56	47	4,038	4,907
Ind. ....	119	149	13,687	19,493	La. ....	111	126	28,038	22,184
Ill. ....	360	441	64,691	75,357	Okl. ....	79	102	10,215	40,238
Mich. ....	261	336	38,126	64,714	Tex. ....	402	585	88,398	126,406
Wis. ....	142	181	8,835	15,261	Mt. ....	280	212	24,161	31,082
W.N.C. ....	519	656	40,624	66,123	Mont. ....	21	14	2,712	4,524
Minn. ....	277	336	21,155	31,379	Idaho.....	32	25	1,268	3,414
Iowa.....	50	64	3,701	7,617	Wyo. ....	10	8	763	607
Mo. ....	52	66	4,669	8,867	Colo. ....	25	15	1,549	2,812
N. Dak. ....	21	45	1,259	5,726	N. Mex. ....	64	41	4,209	2,349
S. Dak. ....	6	18	1,662	1,320	Ariz. ....	91	62	8,399	11,170
Nebr. ....	52	42	4,480	5,550	Utah.....	19	10	1,712	1,410
Kans. ....	61	85	3,798	5,664	Nev. ....	18	28	3,650	4,787
S.A. ....	1,068	963	100,066	194,081	Pac. <sup>2</sup> .....	2,394	2,706	214,618	300,547
Del. ....	5	6	4,176	15,313	Wash. ....	119	298	7,106	21,571
Md. ....	191	164	13,693	14,785	Oreg. ....	243	192	9,315	13,273
D.C. ....	37	31	3,098	1,182	Calif. ....	2,032	2,216	198,107	265,703

<sup>1</sup> See footnotes 2 and 3, table 746.

<sup>2</sup> Excludes Alaska and Hawaii.

Source: *Dun & Bradstreet, Inc., New York, N.Y.; The Failure Record Through 1969*, and *Monthly Failure Report*.



# No. 748. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY INDUSTRY AND SIZE OF LIABILITY: 1955 TO 1970

[Liabilities in millions of dollars. Excludes Alaska and Hawaii. See footnotes 2 and 3, table 744]

INDUSTRY AND SIZE OF LIABILITY	FAILURES					CURRENT LIABILITIES				
	1955	1960	1965	1969	1970	1955	1960	1965	1969	1970
Total.....	10,969	15,445	13,514	9,154	10,748	449	939	1,322	1,142	1,888
Mining and manufacturing.....	2,202	2,612	2,097	1,493	2,035	157	200	350	406	818
Under \$100,000.....	1,857	2,012	1,464	879	1,069	48	58	49	34	43
\$100,000 and over.....	345	600	633	614	966	108	231	301	373	775
Wholesale trade.....	1,164	1,473	1,355	842	984	58	107	144	172	170
Under \$100,000.....	1,044	1,231	1,044	560	650	27	36	35	21	27
\$100,000 and over.....	120	242	311	282	334	31	71	110	151	152
Retail trade.....	5,339	7,886	6,250	4,070	4,650	122	241	287	265	361
Under \$100,000.....	5,158	7,002	5,698	3,570	3,984	87	146	144	106	124
\$100,000 and over.....	181	884	552	500	666	35	96	143	159	236
Construction.....	1,404	2,607	2,513	1,590	1,687	83	201	201	172	232
Under \$100,000.....	1,239	2,171	2,025	1,226	1,220	31	61	65	41	43
\$100,000 and over.....	165	436	488	364	468	53	140	226	131	190
Commercial service.....	860	1,367	1,299	1,159	1,392	30	99	240	127	299
Under \$100,000.....	815	1,234	1,109	957	1,087	14	26	29	29	83
\$100,000 and over.....	45	133	190	202	305	16	73	219	98	265

Source: Dun & Bradstreet, Inc., New York, N.Y.; *The Failure Record Through 1969*, and *Monthly Failure Report*.

# No. 749. BANKRUPTCY CASES FILED AND PENDING: 1905 TO 1970

[In thousands. For years ending June 30. Covers all U.S. District Courts. A bankruptcy case is a proceeding filed in a U.S. District Court under the National Bankruptcy Act. "Filed" means the commencement of a proceeding through the presentation of a petition to the clerk of the court; "Pending" is a proceeding in which the administration has not been completed]

YEAR	Filed	Pending	YEAR	Filed	Pending	YEAR	Filed	Pending	YEAR	Filed	Pending
1905.....	17	23	1935.....	60	65	1958.....	92	80	1964.....	172	157
1910.....	18	25	1940.....	52	55	1959.....	101	84	1965.....	180	162
1915.....	28	44	1945.....	18	21	1960.....	110	95	1966.....	192	169
									1967.....	208	185
1920.....	14	30	1950.....	33	38	1961.....	147	124	1968.....	198	184
1925.....	46	60	1955.....	50	56	1962.....	148	134	1969.....	185	179
1930.....	63	61	1957.....	74	68	1963.....	155	148	1970.....	194	191

# No. 750. BANKRUPTCY CASES FILED, BY TYPE OF BANKRUPTCY AND OCCUPATION OF DEBTOR: 1940 TO 1970

[For years ending June 30. See headnote, table 479]

ITEM	1940	1950	1955	1960	1965	1967	1968	1969	1970
Total.....	52,320	33,392	59,404	110,034	180,323	208,329	197,811	184,930	194,399
TYPE									
Straight bankruptcies.....	45,654	26,632	48,899	95,710	151,137	175,125	165,593	155,000	162,451
Voluntary.....	43,902	25,263	47,650	94,414	149,820	173,884	164,592	154,074	161,366
Involuntary.....	1,752	1,369	1,249	1,296	1,317	1,241	1,001	946	1,085
Corporate reorganization.....	320	134	73	90	88	138	128	87	115
Arrangements.....	1,139	614	566	634	1,071	1,103	1,022	933	1,320
Wage earners' plans.....	3,247	6,007	9,804	13,509	28,027	31,063	31,065	28,910	30,510
Other.....	1,960	5	2	1	-	-	3	-	3
OCCUPATION OF DEBTOR:									
Merchants.....	4,651	2,565	3,317	3,157	4,332	4,437	4,173	3,634	4,003
Manufacturers.....	821	803	750	624	688	635	635	579	731
Farmers.....	2,678	290	386	453	589	443	567	606	658
Employees.....	36,846	22,933	46,163	89,639	148,965	174,025	162,866	150,188	156,343
Members of professions.....	801	126	217	495	778	703	1,084	1,301	1,301
Other.....	6,423	6,675	8,571	15,666	23,628	26,652	27,469	27,699	30,264
In business.....	4,193	4,568	4,515	7,555	9,188	9,137	9,088	8,417	8,470
Not in business.....	2,230	2,107	4,056	8,111	14,440	17,515	18,381	19,252	21,794

- Represents zero. <sup>1</sup> Beginning 1965, excludes corporate and involuntary straight cases.

Source of tables 749 and 750: Administrative Office of the United States Courts; *Tables of Bankruptcy Statistics*.

## Section 18

### Communications

This section presents statistics on usage, finances, and operations of the various communications media: Postal service, telephone, telegraph, radio, television, newspapers, and books. Data on the postal service are included in the *Annual Report of the Postmaster General*. Statistics on revenues, volume of mail, and distribution of expenditures are presented in the U.S. Postal Service's annual *Revenue and Cost Analysis Report*. Principal sources of wire, radio, and television data are the Federal Communications Commission's *Annual Report*, its annual *Statistics of Communications Common Carriers*, and its annual releases of financial data reported by radio and television stations and networks. *Statistics on number and circulation of newspapers and periodicals* and on sales of books and pamphlets are issued by the Bureau of the Census in reports of the Census of Manufactures. Annual data on number and circulation of daily and Sunday newspapers appear in *International Yearbook Number*, issued by Editor and Publisher, New York. Monthly data on new books and new editions of books are presented by R. R. Bowker Company, New York, in *Publishers' Weekly*.

**Postal service.**—"Revenue and cost analysis" is the term used by the Postal Service to describe its system of cost ascertainment. This system utilizes random sampling for observation of the time required to handle various classes of mail and services. The sample results are applied to accounting records to estimate cost by class of service. Incremental cost estimates are also obtained and are used as the basis for postal rate recommendations.

**Telephone and telegraph systems.**—Statistical coverage of wire and radio communications has been concentrated in the Federal Communications Commission since its establishment in 1934. According to the Communications Act of 1934, as amended, the Commission has jurisdiction over carriers engaged in interstate or foreign communications service by means of wire or radio. The Commission requires all except the smallest of these carriers to file annual and monthly reports and requires the companies controlling any but the smallest to file annual reports. Full jurisdiction applies to practically all domestic and overseas telegraph carriers and to the Communications Satellite Corporation but not to a large number of telephone carriers which are engaged in interstate or foreign service only by connection with the facilities of another unaffiliated carrier. However, the gross operating revenues of the telephone carriers reporting annually to the Commission are estimated to cover over 90 percent of the revenues of all telephone carriers in the United States.

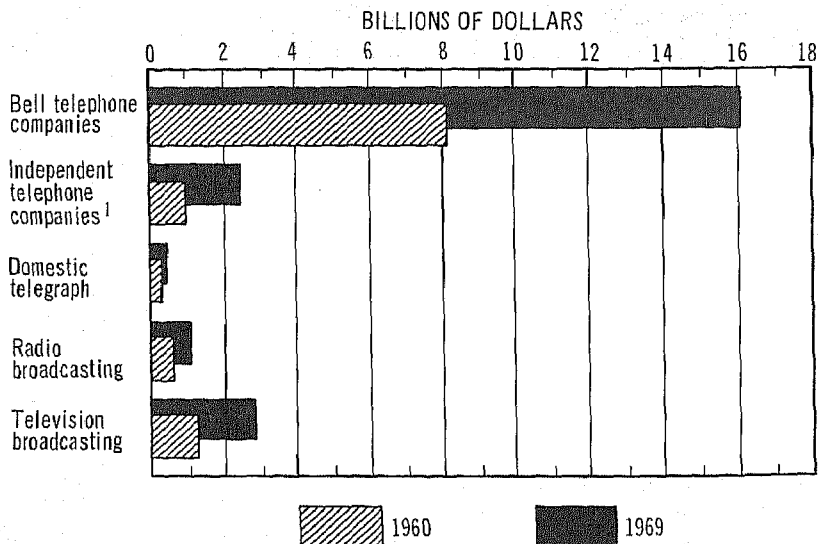
**Broadcast.**—The number of broadcast stations authorized refers to the number licensed or holding construction permits. Total broadcast revenues are defined as total sales of time, talent, programs, and services of all networks and stations, less commissions to agencies and plus incidental revenues, such as sale of talent, program material, etc. Reports filed with the Federal Communications Commission by broadcast stations and networks cover substantially all units operating in the United States and its outlying areas.

**Nonbroadcast radio.**—Most of the nonbroadcast radio services are grouped together as the safety and special radio services, which constitute the greatest number of radio stations licensed by the Federal Communications Commission. Utilization of these services by individuals, industry, commerce, and State and local government covers broad fields of operations in connection with protection of life and property, industrial and agricultural production, transportation, disaster, and civil defense.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XXX. OPERATING REVENUES OF SELECTED COMMUNICATIONS MEDIA: 1960 AND 1969

[See tables 758, 759, 762, 769, and 771]

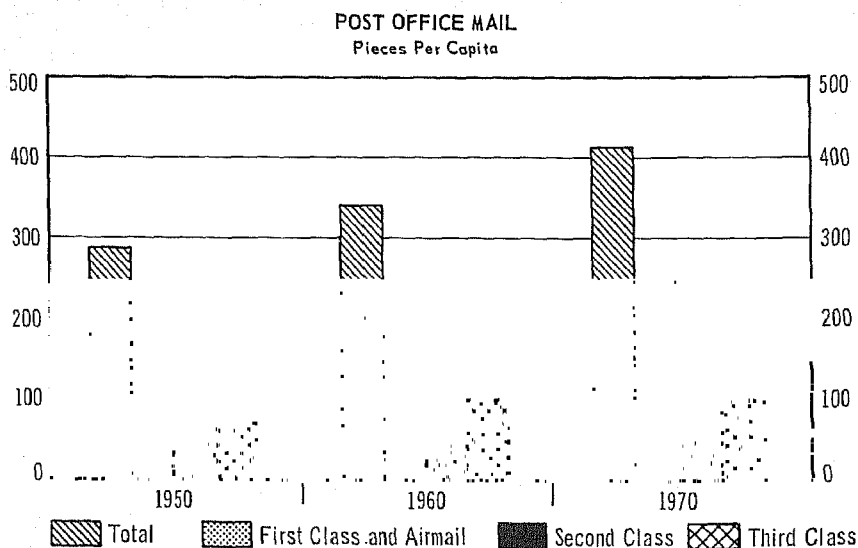


<sup>1</sup> Includes estimates for nonreporting companies; see footnote 1, table 762.

Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from American Telephone and Telegraph Company, United States Independent Telephone Association, and Federal Communications Commission.

FIG. XXXI. PIECES OF MAIL RECEIVED PER CAPITA: 1950, 1960, AND 1970

[See table 755]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from U.S. Postal Service.

[For years ending June 30. Includes Puerto Rico and all outlying areas except Canal Zone; see table 756. See text, p. 477. See also *Historical Statistics, Colonial Times to 1957*, series R 139-141 and R 145]

YEAR	Number of post offices	FINANCES <sup>1</sup>			Revenue per capita <sup>3</sup>	MONEY ORDERS ISSUED		Sales of postage stamps and other stamped paper	Postage paid under permit (1st, 2d, 3d, and 4th class)	Number of pieces of mail handled <sup>4</sup>
		Revenues	Expenditures <sup>2</sup>	Surplus (+) or deficit (-)		Domes-tic	Inter-national			
		<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Dollars</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Millions</i>
1900-----	76,688	102	108	-5	1.34	239	17	94	( <sup>5</sup> )	7,130
1905-----	68,131	153	167	-15	1.82	397	43	140		10,188
1910-----	59,580	224	230	-6	2.43	548	90	202	1	14,850
1915-----	56,380	287	299	-11	2.85	654	52	256	8	(NA)
1920-----	52,641	437	454	-17	4.11	1,333	23	380	13	(NA)
1925-----	50,957	600	639	-40	5.28	1,533	36	508	39	25,835
1930-----	49,063	705	804	-98	5.75	1,715	52	575	74	27,888
1935-----	45,680	631	697	-66	4.94	1,821	22	473	96	22,332
1940-----	44,024	767	808	-41	5.84	2,095	13	522	177	27,749
1945-----	41,792	1,314	1,145	+169	9.44	4,849	21	954	252	37,912
1950-----	41,464	1,077	2,223	-545	11.14	5,122	16	862	678	45,064
1955-----	38,316	2,349	2,712	-363	14.33	5,852	31	999	1,136	55,234
1960-----	35,238	3,277	3,874	-597	18.27	5,031	27	1,245	1,699	63,675
1965-----	33,624	4,483	5,276	-793	23.17	4,520	20	1,523	2,529	71,873
1966-----	33,121	4,784	5,727	-943	24.43	4,706	18	1,579	2,710	75,607
1967-----	32,626	5,102	6,249	-1,147	25.75	4,697	17	1,636	2,912	78,367
1968-----	32,260	5,660	6,681	-1,021	28.26	4,682	16	1,799	3,265	79,517
1969-----	32,064	6,256	7,279	-1,023	30.93	4,708	15	1,937	3,706	82,005
1970-----	32,002	6,473	7,983	-1,510	31.67	4,605	14	1,936	3,883	84,882

NA Not available.

from the Treasury General Fund for statutory figures.

<sup>2</sup> Includes capital expenditures for plant and equipment and cost of materials and supplies, but no provision for depreciation. Also includes costs of certain non-reimbursable obligations incurred. Includes costs of certain services rendered to the Government but represents obligations incurred for work for others, a reimbursable service, abroad.

<sup>4</sup> Estimates.      <sup>5</sup> Service not inaugurated.

Source: U.S. Postal Service; *Annual Report of the Postmaster General*.

[In millions of dollars. For years ending June 30. Includes Puerto Rico and all outlying areas except Canal Zone; see table 756. See text, p. 477]

REVENUE SOURCE	1920	1930	1940	1950	1955	1960	1965	1969	1970
<b>Total</b> .....	437	705	767	1,677	2,349	3,277	4,483	6,256	6,473
Ordinary postal revenue.....	424	686	732	1,606	2,266	3,189	4,374	6,081	6,290
Stamps, postal cards, etc.....	380	575	522	852	999	1,245	1,528	1,937	1,936
Second-class postage paid in money (pound rates) <sup>2</sup> .....	25	20	23	40	64	86	131	181	192
Other postage paid in money under permit.....	13	74	177	678	1,136	1,699	2,529	3,706	3,883
Box rents.....	6	9	8	14	26	29	34	42	44
Miscellaneous.....	1	1	3	11	41	130	152	215	235
Money-order revenues.....	10	17	24	63	66	81	59	62	57
Postal Savings System income <sup>1</sup> .....	2	2	11	8	18	7	3	-	-
Operating reimbursements.....	-	-	-	-	-	-	47	114	126

- Represents zero.

<sup>1</sup> Net revenue after refunds of postage. Beginning 1965, includes operating reimbursements.

<sup>2</sup> Beginning 1955, includes controlled circulation publications. <sup>3</sup> Includes \$37.4 million appropriated to postal revenues for public services as provided by the Postal Policy Act of 1958. <sup>4</sup> Discontinued April 1966.

Source: U.S. Postal Service; *Annual Report of the Postmaster General*.

## No. 753. POSTAL REVENUES AND COSTS, 1969 AND 1970, AND BY MAJOR CATEGORIES, 1970

[In millions of dollars, except as indicated. As of June 30]

MAIL AND SERVICE	REVENUES AND REIMBURSEMENTS		Per capita revenues <sup>1</sup>	ATTRIBUTABLE COSTS <sup>2</sup>				
	Total	Percent of total		Total <sup>3</sup>	Revenue as percent of total	Direct labor	Transportation	Overhead
1969.....	6,255.9	(X)	\$30.93	3,656.0	171.1	2,759.1	477.6	324
1970, total.....	6,472.8	100.0	31.67	4,143.4	156.2	3,071.6	572.2	398.9
First-class mail <sup>4</sup> .....	3,290.8	50.8	16.10	1,984.8	165.8	1,711.8	50.8	221.2
Airmail.....	201.3	3.1	.99	188.1	107.0	152.0	15.4	20.6
Priority mail <sup>5</sup> .....	282.4	4.4	1.38	93.9	300.8	34.0	54.7	6.2
Second-class mail <sup>6</sup> .....	155.2	2.4	.76	291.6	53.2	237.4	30.3	23.9
Publishers' mail.....	151.2	2.3	.74	286.6	52.7	233.2	30.0	23.4
Outside the county:								
Regular rate publications.....	128.5	2.0	.63	209.0	61.5	169.4	22.6	17.0
Other.....	11.6	0.2	.06	52.9	59.0	42.1	6.6	4.3
Within the county and fees.....	11.1	0.1	.05	24.6	33.3	21.7	0.8	2.1
Controlled circulation publications <sup>7</sup> .....	35.2	0.5	.17	14.0	251.4	9.6	3.3	1.0
Third-class mail <sup>8</sup> .....	827.2	12.8	4.05	531.0	155.8	429.9	38.6	62.6
Bulk rate.....	701.5	10.8	3.43	433.8	261.9	350.4	33.3	50.1
Single piece rate and fees.....	125.7	2.0	.62	97.2	119.0	79.5	5.3	12.6
Fourth-class mail <sup>9</sup> .....	777.9	12.0	3.81	553.6	140.5	329.0	177.5	47.1
Zone rate mail.....	682.5	10.5	3.34	449.2	151.9	263.1	148.1	37.8
Parcels.....	646.5	10.0	3.16	436.4	148.1	253.6	145.0	36.8
Catalogs and fees.....	36.0	0.5	.18	12.8	276.6	9.5	2.2	1.0
Special fourth class rate.....	91.9	1.4	.45	97.6	94.2	61.1	27.9	8.6
Library rate and fees.....	3.5	0.1	.02	6.8	48.5	4.8	1.5	.7
Government mail.....	199.0	3.1	.97	74.3	267.8	41.8	27.7	4.3
International mail.....	270.4	4.2	1.32	136.5	198.1	60.8	56.0	9.6
Special services.....	299.2	4.6	1.46	154.9	193.2	54.7	—	2.7
Other <sup>10</sup> .....	134.2	2.0	.66	120.8	106.3	1.7	117.0	0.1

- Represents zero. X Not applicable.

<sup>1</sup> Based on Bureau of the Census estimated population as of Jan. 1, including Armed Forces abroad.<sup>2</sup> Costs which, by analysis, can be demonstrated to vary in response to changes in volume of a particular class or category of service or, even though fixed, to result from providing one specific class or category of service.

rately.

wholly or partly in writing or typewritten must and postal and post cards; business reply mail; aircels and all priority parcels weighing over 13 oz. over regular service mail.

ance requirements. Covers in-county publications; out-of-county publications, and classroom publications, and those designated as science of publications. Includes transient mail, not shown separately. and certain "shoppers" of at least 24 pp. and 25 percent nonadvertising, circulated free. <sup>8</sup> Bulk rate circulars and books, nonprofit bulk, and miscellaneous advertising and small pieces, all weighing less than 16 oz.<sup>9</sup> Parcel post, catalogs, books, records, and all other mailable matter not included in 1st, 2d, or 3d class.<sup>10</sup> Includes free mail for the blind and handicapped, nonpostal services for other agencies, and unassignable.Source: U.S. Postal Service; annual report, *Revenue and Cost Analysis Report*.

## No. 754. POST OFFICE EMPLOYEES, BY TYPE: 1950 TO 1970

[As of June 30, Includes Puerto Rico and all outlying areas except Canal Zone; see table 766. See *Historical Statistics, Colonial Times to 1957*, series R 161, for total employees]

ITEM	1950	1955	1960	1965	1968	1969	1970
Total employees.....	500,578	511,613	562,868	595,512	730,977	739,002	741,216
Substitute (part-time).....	136,804	144,712	153,881	148,118	198,676	192,821	102,644
Regular.....	363,774	366,901	409,987	447,394	532,301	546,181	648,572
Postmasters.....	145,004	142,233	35,105	33,304	31,730	30,970	29,679
Post office supervisors and technical personnel.....	169,148	174,920	27,070	29,863	34,903	36,741	37,412
Post office clerks and mail handlers <sup>2</sup> .....	32,553	32,022	31,296	30,981	30,850	30,045	31,063
City carriers.....	90,216	91,418	109,749	132,522	158,104	163,823	165,488
Rural carriers.....	32,553	32,022	31,296	30,981	30,850	30,045	31,063
Other.....	26,853	26,308	33,793	32,264	37,928	39,503	41,840
Pieces of mail per employee, average.....	90	108	113	121	109	111	115

<sup>1</sup> Includes assistant postmasters: 3,540 in 1950, and 3,917 in 1955.<sup>2</sup> Includes mobile unit employees.Source: U.S. Postal Service; *Annual Report of the Postmaster General*.

## No. 755. POST OFFICE MAIL, BY CLASSES: 1950 TO 1970

[Pieces of mail in millions, except per capita; weight of mail in millions of pounds. For years ending June 30. Includes Puerto Rico and all outlying areas except Canal Zone; see table 750. For definition of classes of mail, see footnotes, table 753. See also *Historical Statistics, Colonial Times to 1957*, series R 145-160]

CLASS OF MAIL	PIECES OF MAIL				WEIGHT OF MAIL			
	1950	1960	1965	1970	1950	1960	1965	1970
<b>Total</b> .....	45,064	63,675	71,873	84,882	11,521	11,689	12,330	13,281
<b>Domestic</b> .....	44,646	63,115	71,294	83,989	11,176	11,500	12,152	13,055
Per capita <sup>1</sup> .....	295	352	369	411	(X)	(X)	(X)	(X)
1st class and airmail.....	25,353	34,591	39,897	50,174	673	1,059	1,355	1,636
Per capita <sup>1</sup> .....	168	193	205	246	(X)	(X)	(X)	(X)
Priority mail <sup>2</sup> .....	(X)	(X)	(X)	185	(X)	(X)	(X)	371
Per capita <sup>1</sup> .....	(X)	(X)	(X)	1	(X)	(X)	(X)	(X)
2d class.....	6,265	7,535	8,600	9,352	2,287	2,883	3,133	3,417
Per capita <sup>1</sup> .....	42	42	46	46	(X)	(X)	(X)	(X)
3d class.....	<sup>3</sup> 10,343	17,910	19,454	19,974	<sup>3</sup> 640	1,277	1,705	2,032
Per capita <sup>1</sup> .....	69	100	101	98	(X)	(X)	(X)	(X)
4th class.....	<sup>3</sup> 1,179	1,016	1,045	977	<sup>3</sup> 7,370	5,879	5,425	4,780
Per capita <sup>1</sup> .....	8	6	5	5	(X)	(X)	(X)	(X)
Controlled circulation publications.....	( <sup>4</sup> )	125	281	592	( <sup>5</sup> )	63	114	224
Penalty.....	1,472	1,826	2,088	2,544	183	305	383	640
Franked and free for blind.....	34	114	129	215	17	35	38	49
<b>International</b> .....	417	560	579	806	345	189	178	226
Regular and airmail <sup>4</sup> .....	311	405	472	779	20	43	55	179
Parcel post and air parcel post.....	22	10	11	8	273	80	74	71

X Not applicable. <sup>1</sup> Based on estimated total population as of Jan. 1, including Armed Forces abroad.

<sup>2</sup> Effective January 1968. Includes domestic air parcel post.

<sup>3</sup> Publications included with 3d and 4th class.

<sup>4</sup> Includes publishers 2d class.

<sup>5</sup> Comprises letters, cards, and other articles.

Source: U.S. Postal Service; *Revenue and Cost Analysis Report and Annual Report of the Postmaster General*.

## No. 756. POST OFFICES AND PIECES OF MAIL HANDLED—STATES AND OTHER AREAS: 1960 AND 1970

[Pieces of mail in millions. For years ending June 30. Represents independent post offices; excludes stations and branches. Stations: subordinate postal units located within the corporate limits of the city or town where the parent post office is situated; Branches: subordinate postal units not located within such limits]

STATE OR OTHER AREA	POST OFFICES		PIECES OF MAIL		STATE OR OTHER AREA	POST OFFICES		PIECES OF MAIL	
	1960	1970	1960	1970		1960	1970	1960	1970
<b>Total</b> .....	35,238	32,002	63,675	84,882	<b>South Atlantic—Con.</b>				
<b>United States</b> .....	35,118	31,885	63,452	84,594	North Carolina.....	835	799	704	1,019
<b>New England</b> .....	2,068	1,837	3,948	5,254	South Carolina.....	435	401	382	492
Maine.....	599	518	127	161	Georgia.....	714	661	1,146	1,528
New Hampshire.....	297	255	255	297	Florida.....	514	473	1,650	2,207
Vermont.....	323	296	127	178	<b>East South Central</b> .....	3,675	3,139	2,292	3,106
Massachusetts.....	519	456	1,847	2,462	Kentucky.....	1,643	1,364	573	798
Rhode Island.....	62	59	191	289	Tennessee.....	651	610	955	1,273
Connecticut.....	268	253	1,401	1,897	Alabama.....	738	674	509	721
<b>Middle Atlantic</b> .....	4,394	4,043	15,537	20,736	Mississippi.....	543	491	255	314
New York.....	1,757	1,652	9,042	12,078	<b>West South Central</b> .....	3,797	3,511	4,330	5,781
New Jersey.....	553	525	2,674	3,565	Arkansas.....	796	711	255	365
Pennsylvania.....	2,084	1,866	3,821	5,093	Louisiana.....	693	553	573	781
<b>East North Central</b> .....	5,121	4,853	13,945	18,589	Oklahoma.....	718	665	637	815
Ohio.....	1,261	1,092	3,884	5,178	Texas.....	1,691	1,582	2,805	3,820
Indiana.....	823	770	1,401	1,887	<b>Mountain</b> .....	2,480	2,176	1,878	2,479
Illinois.....	1,865	1,290	5,476	7,300	Montana.....	430	394	127	153
Michigan.....	933	889	2,038	2,710	Idaho.....	321	277	127	144
Wisconsin.....	831	803	1,146	1,528	Wyoming.....	322	183	32	68
<b>West North Central</b> .....	5,525	5,110	5,475	7,242	Colorado.....	475	428	700	934
Minnesota.....	943	893	1,387	1,783	New Mexico.....	404	347	128	178
Iowa.....	1,026	975	1,019	1,358	Arizona.....	242	216	382	535
Missouri.....	1,142	1,017	1,783	2,377	Utah.....	266	231	255	314
North Dakota.....	540	484	127	136	Nevada.....	111	100	127	153
South Dakota.....	476	438	127	153	<b>Pacific</b> .....	2,617	2,329	8,342	11,137
Nebraska.....	608	567	509	705	Washington.....	583	503	764	1,019
Kansas.....	709	736	573	730	Oregon.....	431	372	510	688
<b>South Atlantic</b> .....	5,541	4,887	7,705	10,270	California.....	1,305	1,171	6,877	9,107
Delaware.....	61	57	127	161	Alaska.....	215	203	64	76
Maryland.....	486	433	955	1,273	Hawaii.....	83	80	127	187
D.C.....	1	1	1,666	2,207	<b>Other areas</b> .....	120	117	223	288
Virginia.....	1,228	975	828	1,103	Puerto Rico.....	105	100	127	161
West Virginia.....	1,267	1,087	191	280	Virgin Islands.....	5	5	32	42
					Others <sup>1</sup> .....	10	12	64	85

<sup>1</sup> Guam, Samoa (Tutuila), Wake, Caroline, Mariana, and Marshall Islands.

Source: U.S. Postal Service; *Annual Report of the Postmaster General*.

## No. 757. TELEPHONES, CALLS, AND RATES: 1950 TO 1970

[See also *Historical Statistics, Colonial Times to 1887*, series R 1-13]

ITEM	1950	1960	1964	1965	1966	1967	1968	1969	1970
<b>Telephones (Dec. 31)</b> .....mil.	43	74	89	94	99	104	109	115	120
Total per 1,000 population.....	281	408	459	478	499	518	540	564	583
Bell companies <sup>1</sup> .....mil.	37	63	75	79	83	87	91	96	100
Dial operated <sup>1</sup> .....mil.	28	61	74	78	83	87	91	96	100
Independent companies.....mil.	6	11	14	15	16	17	18	19	20
<b>Type of service:</b>									
Business.....mil.	<sup>2</sup> 13	21	25	26	27	29	30	32	33
Residence.....mil.	<sup>2</sup> 30	54	64	68	71	75	79	83	87
Households with telephone service <sup>2,3</sup> .....percent.	62	78	83	85	86	87	89	90	92
Bell companies calls <sup>4,5</sup> .....bill.	63	100	117	125	134	141	150	160	157
<b>Average daily conversations (millions):</b>									
Bell companies <sup>1,6</sup> .....	145	225	269	287	303	315	330	359	381
Local <sup>1</sup> .....	139	215	257	273	288	299	312	338	356
Long distance <sup>1,6</sup> .....	6	10	13	14	15	17	18	21	25
Independent companies <sup>6</sup> .....	31	60	76	80	86	91	96	104	108
Local.....	30	58	73	77	83	87	92	100	104
Long distance <sup>6</sup> .....	1	2	3	3	3	4	4	4	4
<b>Monthly toll revenue per residence account, Bell system:<sup>7</sup></b>									
Intrastate (over 24 miles).....dol.	1.40	2.42	3.19	3.46	3.84	4.13	4.52	5.00	5.53
A T & T long lines (interstate).....dol.	.69	1.29	2.16	2.34	2.63	2.85	3.13	3.80	3.73
<b>Toll rates in effect (Dec. 31), from New York City to:<sup>4</sup></b>									
Philadelphia.....dol.	.45	.50	.50	.50	.50	.50	.50	.50	.50
Chicago.....dol.	1.55	1.45	1.45	1.40	1.40	1.40	\$ 1.30	1.30	\$ 1.05
Denver.....dol.	2.20	1.80	1.80	1.70	1.70	1.60	\$ 1.55	1.55	\$ 1.25
San Francisco.....dol.	2.50	2.25	2.25	2.00	2.00	1.75	\$ 1.70	1.70	\$ 1.35

<sup>1</sup> Company and its principal telephone subsidiaries, which constitute the Bell Telephone System, including American Telephone and Telegraph Company, New York, N.Y., and its subsidiaries in New England and Cincinnati and Suburban Bell Telephone Companies.

<sup>2</sup> E. R. F. Federal Communications Commission. Toll rates represent rate for dial station to station, daytime, 3-minute call.

<sup>3</sup> Source: Federal Communications Commission. Toll rates represent rate for dial station to station, daytime, 3-minute call.

<sup>4</sup> Source: American Telephone and Telegraph Company, New York, N.Y., except as noted; compiled from reports of Bell System, Southern New England and Cincinnati and Suburban Companies, and unpublished data.

<sup>5</sup> In effect Aug. 1, 1968.

<sup>6</sup> toll to Philadelphia increased to \$0.55.

<sup>7</sup> Source: American Telephone and Telegraph Company, New York, N.Y., except as noted; compiled from reports of Bell System, Southern New England and Cincinnati and Suburban Companies, and unpublished data.

## No. 758. BELL TELEPHONE COMPANIES—SUMMARY: 1950 TO 1970

[Money figures in millions of dollars. As of December 31 or calendar year, as applicable. Comprises American Telephone and Telegraph Company, New York, N.Y., and its subsidiaries, which constitute the Bell Telephone System, plus Southern New England and Cincinnati and Suburban Bell Telephone Companies. See also *Historical Statistics, Colonial Times to 1887*, series R 14-27]

ITEM	1950	1960	1965	1966	1967	1968	1969	1970
Central offices, number <sup>1</sup> .....	8,656	11,212	13,425	13,687	14,133	14,389	14,769	15,135
Miles of wire <sup>2</sup> .....1,000..	144,256	307,876	422,623	453,521	480,308	512,250	553,868	601,912
Percent total wire mileage in cable.....	95.6	97.8	98.5	98.7	98.8	99.0	99.1	99.3
Miles of coaxial tube.....1,000..	63	97	169	197	238	265	270	287
Miles of microwave radio relay, broad band 1-way channel.....1,000..	8	298	728	895	997	1,104	1,151	1,181
Book value of plant (cost).....	10,375	24,722	36,229	39,317	42,509	46,091	50,480	56,171
Depreciation and amortization reserves.....	2,905	5,402	7,794	8,551	9,445	10,512	11,554	12,610
Operating revenues.....	3,842	8,111	11,320	12,419	13,311	14,429	16,058	17,369
Local exchange.....	1,937	4,665	6,114	6,517	6,910	7,366	7,979	8,635
Toll.....	1,208	3,058	4,706	5,378	5,852	6,472	7,451	8,042
Operating expenses <sup>3</sup> .....	2,653	6,686	7,857	8,578	9,246	10,026	11,402	12,887
Net income.....	370	1,279	1,887	2,076	2,151	2,153	2,307	2,303
Dividends declared <sup>4</sup> .....	263	770	1,144	1,250	1,291	1,389	1,424	1,508
Employees, number.....1,000..	535	595	627	667	673	697	755	793
Wages and salaries.....	1,742	3,283	4,169	4,517	4,792	5,137	5,912	6,641

<sup>1</sup> Beginning 1965, data on revised basis, not fully comparable with prior years. <sup>2</sup> Excludes drop and block wire. <sup>3</sup> Includes operating taxes other than Federal income. <sup>4</sup> Includes dividends on all minority holdings of preferred and common stocks, but excludes intercompany dividends.

Source: American Telephone and Telegraph Company, New York, N.Y.; compiled from reports of Bell System, Southern New England and Cincinnati and Suburban Companies, and unpublished data.

## No. 759. TELEPHONE AND TELEGRAPH SYSTEMS: 1950 TO 1969

[In millions of dollars, except as indicated. Covers principal carriers filing annual reports with Federal Communications Commission. See also *Historical Statistics, Colonial Times to 1967*, series R 53-65 and R 72-85, for data on telegraph systems]

ITEM	1950	1955	1960	1965	1968	1969
<b>Domestic telephone:</b> <sup>1</sup>						
Carriers.....number	71	53	52	54	55	57
Telephones <sup>2</sup> .....1,000	38,525	49,735	65,735	82,424	96,099	101,460
Miles of wire.....1,000	147,380	204,879	315,541	435,962	534,932	577,018
Capital investment:						
Book cost of plant.....	10,702	16,224	25,714	37,987	48,860	53,695
Depreciation and amortization reserves.....	2,979	4,098	5,577	8,105	10,981	12,084
Ratio to book cost.....percent	27.8	25.3	21.7	21.4	22.5	22.5
Capital stock.....	3,195	5,967	8,383	10,036	10,606	10,702
Income and expenses:						
Operating revenues.....	3,445	5,562	8,365	11,762	15,097	16,823
Operating expenses <sup>3</sup> .....	2,404	3,704	5,024	7,082	9,034	10,294
Operating ratio <sup>4</sup> .....percent	71.6	66.6	60.1	60.2	59.8	61.2
Net operating income <sup>5</sup> .....	455	704	1,399	2,094	2,561	2,813
Net income.....	372	694	1,250	1,862	2,133	2,261
Employees.....1,000	565	649	627	655	734	794
Compensation of employees.....	1,798	2,693	3,384	4,317	5,363	6,170
<b>Overseas telephone:</b>						
Number of overseas calls.....1,000	745	1,194	3,301	7,515	13,785	19,663
Revenue from overseas calls.....	9	16	42	101	168	226
Telephone ocean cable systems.....number	1	1	5	11	12	12
Communications satellites.....number	-	-	-	1	4	4
Overseas television transmission <sup>6</sup> .....hours	-	-	-	33	440	854
<b>Domestic telegraph:</b>						
Number of carriers.....	1	1	1	1	1	1
Revenue messages transmitted.....1,000	178,904	153,010	124,319	94,302	85,645	77,059
Message revenues (includes telex service).....	152	189	190	192	213	220
Total operating revenues.....	178	220	262	306	358	391
Operating revenue deductions.....	167	206	247	282	329	358
Operating income <sup>7</sup> .....	0	13	11	24	30	33
Miles of wire in cable.....1,000	369	388	417	410	408	407
Miles of aerial wire.....1,000	929	712	647	554	347	270
Bell teletypewriter (TWX), messages.....1,000	14,750	22,794	33,340	46,828	49,506	46,743
<b>Overseas telegraph:</b> <sup>8</sup>						
Number of carriers.....	11	10	9	6	6	6
Revenue messages transmitted.....1,000	22,578	25,642	28,278	28,830	30,705	32,235
Message revenues (includes telex service).....	42	50	71	78	102	117
Total operating revenues.....	50	68	87	107	154	180
Operating revenue deductions.....	45	58	77	87	124	142
Operating income <sup>7</sup> .....	4	3	6	14	21	25

<sup>1</sup> Reprer... duplications. <sup>2</sup> Includes compa... Excludes intercompany... percent of all carriers. <sup>3</sup> In... g expenses, excluding taxes, to operating revenues. <sup>4</sup> After tax deductions. <sup>5</sup> Includes overseas telegraph carriers. Service began July 1965. <sup>6</sup> After Federal income taxes. <sup>7</sup> Beginning 1965, excludes South American and most Caribbean operations of All America Cables and Radio, Inc.

Source: Federal Communications Commission; annual report, *Statistics of Communications Common Carriers*, and unpublished data.

## No. 760. HOUSEHOLDS WITH TELEPHONES: 1958, 1960, AND 1965

[As of March. 1958 excludes Alaska and Hawaii. Based on sample. For definition of terms used, see pp. 2 and 3]

AREA AND CHARACTERISTIC	TOTAL HOUSEHOLDS (1,000)			PERCENT OF HOUSEHOLDS WITH TELEPHONE			AREA AND CHARACTERISTIC	PERCENT OF HOUSEHOLDS WITH TELEPHONE		
	1958	1960	1965	1958	1960	1965		1958	1960	1965
<b>Total.....</b>	<b>50,474</b>	<b>52,799</b>	<b>57,251</b>	<b>72.5</b>	<b>74.8</b>	<b>80.6</b>	<b>INCOME<sup>2</sup></b>			
Primary families.....	43,426	44,905	47,720	74.7	77.0	82.5	Under \$1,000.....	(NA)	43.5	55.7
Primary individuals.....	7,047	7,895	9,531	58.6	61.5	71.2	\$1,000-\$1,999.....	(NA)	50.3	61.5
RESIDENCE <sup>1</sup>							\$2,000-\$2,999.....	(NA)	57.0	68.7
Metropolitan.....	(NA)	(NA)	37,395	80.1	81.4	84.6	\$3,000-\$3,499.....	62.0	66.1	70.7
In central cities.....	(NA)	(NA)	19,222	77.7	77.6	81.4	\$3,500-\$3,999.....	68.5	65.9	73.4
Outside central cities.....	(NA)	(NA)	18,173	(NA)	(NA)	88.1	\$4,000-\$4,499.....	70.9	72.8	74.3
Nonmetropolitan.....	(NA)	(NA)	19,856	61.1	64.8	72.6	\$4,500-\$4,999.....	78.4	76.8	76.5
Nonfarm.....	(NA)	(NA)	16,883	(NA)	(NA)	73.3	\$5,000-\$5,999.....	82.3	82.8	80.7
Farm.....	(NA)	(NA)	2,973	45.5	50.3	68.6	\$6,000-\$6,999.....	86.5	88.4	85.9
Northeast.....	(NA)	(NA)	(NA)	80.8	81.8	86.1	\$7,000-\$9,999.....	91.5	92.4	92.7
North Central.....	(NA)	(NA)	(NA)	78.2	79.1	86.1	\$10,000-\$14,999.....	95.5	95.0	95.6
South.....	(NA)	(NA)	(NA)	58.3	63.1	70.0	\$15,000-\$24,999.....	95.9	98.0	96.2
West.....	(NA)	(NA)	(NA)	75.7	76.2	81.3	\$25,000 and over.....	97.2	92.9	95.4

NA. Not available. <sup>1</sup> For composition of regions, see fig. I, p. xli.

<sup>2</sup> Money income received by primary families and individuals during calendar year.

Source: Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-20, Nos. 95, 111, 146.



## No. 761. TELEPHONES IN USE, BY STATES: 1969

[As of December 31]

STATE	TELEPHONES (1,000)					Tele- phones per 100 popula- tion	House- holds with tele- phone service <sup>2</sup> (percent)	Bell com- panies calls <sup>3</sup> (mil.)
	Total	Ownership		Type of service				
		Bell com- panies <sup>1</sup>	All other	Busi- ness	Resi- dence			
United States.....	115,201	95,942	19,259	32,221	82,980	56.7	90	159,608
Alabama.....	1,501	1,259	243	381	1,121	42.5	80	2,751
Alaska.....	85	-	85	36	50	29.9	(NA)	-
Arizona.....	879	853	26	277	602	51.5	84	1,443
Arkansas.....	807	502	215	207	600	40.3	73	1,055
California.....	12,892	10,141	2,751	3,857	9,035	65.8	95	16,062
Colorado.....	1,292	1,272	21	397	896	60.9	93	2,208
Connecticut.....	1,957	1,949	8	526	1,430	64.7	96	3,052
Delaware.....	360	360	-	98	263	66.2	95	537
District of Columbia.....	863	863	-	420	443	108.4	96	1,481
Florida.....	3,828	2,602	1,226	1,140	2,688	59.5	90	4,940
Georgia.....	2,267	1,930	336	632	1,635	48.4	83	4,239
Hawaii.....	424	-	424	157	267	52.8	(NA)	-
Idaho.....	337	267	70	96	240	46.6	83	433
Illinois.....	6,877	5,741	1,136	1,929	4,948	62.0	92	8,491
Indiana.....	2,707	1,803	904	680	2,078	53.8	90	3,091
Iowa.....	1,558	1,084	474	363	1,194	55.9	95	1,520
Kansas.....	1,251	1,040	211	307	945	53.5	89	1,587
Kentucky.....	1,864	1,002	863	346	1,018	42.1	79	1,911
Louisiana.....	1,701	1,610	91	431	1,270	45.2	83	3,753
Maine.....	460	414	46	117	343	47.1	91	577
Maryland.....	2,331	2,328	3	632	1,699	61.4	98	3,635
Massachusetts.....	3,400	3,397	3	1,025	2,375	62.0	98	5,660
Michigan.....	4,957	4,405	553	1,266	3,632	56.2	95	7,503
Minnesota.....	2,135	1,743	391	545	1,690	57.3	97	2,810
Mississippi.....	833	794	39	205	628	35.2	67	1,536
Missouri.....	2,659	2,204	455	713	1,946	56.9	88	3,753
Montana.....	340	284	56	93	247	40.1	86	426
Nebraska.....	830	489	350	211	628	57.8	96	795
Nevada.....	307	109	197	119	188	66.4	85	160
New Hampshire.....	397	378	19	90	297	54.8	96	405
New Jersey.....	4,585	4,506	79	1,186	3,399	63.7	96	6,477
New Mexico.....	468	407	61	100	308	47.1	81	699
New York.....	12,200	11,240	960	3,336	8,364	66.3	94	18,016
North Carolina.....	2,206	1,168	1,038	566	1,640	42.0	79	2,174
North Dakota.....	306	215	91	70	227	50.1	95	308
Ohio.....	6,035	4,641	1,394	1,544	4,491	55.8	93	7,637
Oklahoma.....	1,394	1,232	162	392	1,003	54.0	84	2,084
Oregon.....	1,128	835	243	318	810	55.1	90	1,532
Pennsylvania.....	7,201	5,995	1,206	1,772	5,430	60.8	93	8,271
Rhode Island.....	507	507	-	137	370	55.5	95	789
South Carolina.....	1,093	808	286	283	811	40.4	79	1,554
South Dakota.....	320	250	60	80	240	48.7	90	381
Tennessee.....	1,846	1,551	295	477	1,369	46.1	83	3,349
Texas.....	5,995	5,030	965	1,744	4,252	53.1	84	9,727
Utah.....	564	543	20	159	405	63.5	91	1,063
Vermont.....	221	193	28	64	157	40.8	94	244
Virginia.....	2,336	1,871	465	668	1,668	49.7	86	3,172
Washington.....	1,921	1,487	434	545	1,376	55.5	88	2,480
West Virginia.....	741	647	94	185	556	40.7	78	1,176
Wisconsin.....	2,281	1,669	612	658	1,624	53.7	93	2,333
Wyoming.....	187	176	12	56	131	58.7	89	250

- Represents zero. NA. Not available.

<sup>1</sup> Includes 456,600 service telephones (non-company telephones for which switching service is provided).<sup>2</sup> Households with service are sum of residence main, apartment house private branch exchange and residence service main telephones, and other residence private branch exchange systems. There tends to be a slight overstatement of the proportion of households with telephone service.<sup>3</sup> Represents the number of completed local calls and completed and uncompleted toll calls originating from company and service telephones of the Bell companies. Partially estimated.Source: Federal Communications Commission; annual report, *Statistics of Communications Common Carriers*, and unpublished data. Data from American Telephone and Telegraph Company.

## No. 762. INDEPENDENT TELEPHONE COMPANIES—SUMMARY: 1950 TO 1969

[Money figures in millions of dollars. As of December 31 or calendar year, as applicable. Includes Puerto Rico. Covers only those companies submitting operating information to the United States Independent Telephone Association. Companies reporting in 1969 represented 92 percent of the independent telephones in service. See also *Historical Statistics, Colonial Times to 1957*, series R 28-42]

ITEM	1950	1955	1960	1965	1966	1967	1968	1969
All companies, number.....	5,542	4,714	3,301	2,423	2,246	2,102	1,972	1,894
Reporting companies, number.....	379	406	550	669	666	670	654	688
Telephones (incl. service telephones) 1,000.....	4,022	6,750	9,718	13,648	14,704	15,552	16,836	18,046
Telephone plant in service, book value.....	878	1,656	3,396	6,056	6,878	7,621	8,714	9,918
Depreciation reserves.....	203	326	600	1,168	1,333	1,487	1,706	1,934
Operating revenues 1.....	270	503	906	1,530	1,734	1,873	2,152	2,462
Operating expenses 2.....	211	354	630	1,040	1,184	1,300	1,477	1,695
Net income.....	29	67	117	225	257	264	293	320
Employees.....1,000.....	63	72	85	101	110	114	123	133
Wages and salaries.....	147	224	359	537	612	671	782	871

<sup>1</sup> Estimated revenues including nonreporting companies, amounted to \$1,020 million in 1960, \$1,670 million in 1965, \$1,879 million in 1966, \$2,026 million in 1967, \$2,305 million in 1968, and \$2,613 million in 1969.

<sup>2</sup> Excludes Federal income taxes.

Source: United States Independent Telephone Association, Washington, D.C.; annual report, *Statistics of the Independent Telephone Industry*. (Copyright.)

## No. 763. RURAL ELECTRIFICATION ADMINISTRATION—TELEPHONE PROGRAM, SUMMARY OF OPERATIONS: 1950 TO 1970

[Cumulative data cover period from program authorization, October 28, 1949, to December 31 of years shown]

ITEM	1950	1955	1960	1965	1969	1970
Loans approved, cumulative, Dec. 31: 1						
Borrowers.....	61	415	727	845	865	862
Amount.....mil. dol.....	19	274	737	1,200	1,683	1,815
Route miles of line provided for, cumulative, Dec. 31.....1,000.....	21	179	378	515	559	575
Subscribers provided for, cumulative, Dec. 31.....1,000.....	75	607	1,467	2,066	2,416	2,506
To receive initial service.....1,000.....	45	311	673	1,072	1,318	1,383
To receive improved service.....1,000.....	20	296	794	994	1,100	1,123
Telephones in service, Dec. 31.....1,000.....	(NA)	304	1,280	2,046	2,755	<sup>2</sup> 2,940
Total operating revenues during year.....mil. dol.....	(NA)	16	94	187	310	<sup>3</sup> 345
Total telephone plant.....mil. dol.....	(NA)	(NA)	635	1,168	1,828	<sup>2</sup> 2,000
Employees.....	(NA)	(NA)	9,672	11,567	14,088	<sup>2</sup> 14,750

NA Not available. <sup>1</sup> Net loans (recisions deducted). <sup>2</sup> Preliminary.

Source: Dept. of Agriculture, Rural Electrification Administration; *Annual Statistical Report—Rural Telephone Borrowers*.

## No. 764. COMMUNICATIONS RATES BETWEEN SELECTED CITIES: 1945 TO 1971

[See also *Historical Statistics, Colonial Times to 1957*, series R 68-71 and R 86-89]

EFFECTIVE DATE	BETWEEN NEW YORK CITY AND—				EFFECTIVE DATE	BETWEEN NEW YORK CITY AND—			
	Phila- delphia	Chicago	Denver	San Franc- isco		London	Cairo	Tokyo	Buenos Aires
TELEGRAPH RATES 1					CABLE AND RADIO TELEGRAPH RATES 3				
1946, Dec. 29.....	\$0.36	\$0.72	\$1.08	\$1.44	1945, May 1.....	\$0.20	\$0.42	\$0.24	\$0.20
1950, Feb. 1.....	.40	.75	1.25	1.45	1950, July 1.....	.19	.30	.30	.27
1956, Aug. 26.....	.95	1.30	1.75	1.75	1958, Aug. 1.....	.21	.34	.34	.31
1960, Oct. 17.....	1.10	1.45	1.90	1.90	In effect Jan. 1, 1971.....	.23	.34	.34	.31
1966, Jan. 1.....	1.27	1.70	2.23	2.23	TELEPHONE RATES 4				
1968, Nov. 1.....	2.25	2.25	2.25	2.25	1945.....	12.00	30.00	19.50	12.00
In effect Jan. 1, 1971.....	2.75	2.75	2.75	2.75	1946.....	12.00	12.00	12.00	12.00
TWX RATES 2					In effect Jan. 1, 1971.....	9.00	12.00	12.00	12.00
1946, Feb. 1.....	.35	1.05	1.55	1.75					
1953, July 1.....	.45	1.20	1.65	1.75					
1960, Feb. 7.....	.45	1.15	1.65	1.75					
In effect Jan. 1, 1971.....	.25	.60	.65	.70					

<sup>1</sup> Beginning Sept. 1, 1951, minimum charge for each word or less.

<sup>2</sup> Prior to September 1966, telephone communication rates were based on a 3-minute initial period rate for each minute or fraction thereof. Since Sept. 1, 1966, rates are based on a 3-minute initial period rate for each minute or fraction thereof. Since Sept. 1, 1966, rates are based on a 3-minute initial period rate for each minute or fraction thereof.

<sup>3</sup> For person-to-person communication, rates beginning June 18, 1964; to London beginning Jan. 1, 1965; to Paris beginning Nov. 1, 1969, with 3-minute initial period rates, in effect Dec. 31, 1970, of \$9.00, \$6.40, and \$8.00, respectively.

Source: Federal Communications Commission; releases and unpublished data.

# No. 765. BROADCAST AND NONBROADCAST STATIONS AUTHORIZED AND OPERATORS LICENSED, BY CLASS: 1965 AND 1970

[As of June 30. Includes Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1967*, series R 90-94 and R 120-126]

CLASS	1965	1970	CLASS	1965	1970
<b>Safety and special radio services</b> <sup>1</sup>	1,456,911	1,844,595	<b>Broadcast services</b> <sup>2</sup>	18,544	25,481
Amateur and disaster	280,343	283,401	Commercial AM	4,097	4,370
Citizens	744,713	886,951	Commercial TV	689	823
Aviation	109,897	150,955	Educational TV	125	212
Aircraft	88,826	123,622	TV translator	2,023	2,561
Aeronautical and fixed	5,071	6,033	Auxiliary TV	1,688	2,408
Civil air patrol	10,878	19,333	Experimental TV	25	7
Other	1,122	2,067	Commercial FM	1,565	2,280
Industrial	141,300	222,500	Educational FM	272	462
Power	15,504	18,718	International	3	3
Business	73,915	137,600	Remote pickup	7,748	11,579
Petroleum	10,075	12,487	Studio-transmitter-link	143	412
Forest products	2,781	4,124	Instructional TV fixed	33	160
Special industrial	35,805	43,053	Other	133	195
Other	3,280	6,518	<b>Common carrier services</b>	10,017	15,770
Land transportation	15,635	22,262	Point to point microwave	4,584	6,340
Railroad	5,260	8,113	Local TV transmission	77	69
Taxicab	4,796	6,530	Rural radio	498	764
Interurban property	2,786	3,250	Developmental	110	173
Other	2,793	5,360	Domestic public land mobile	4,710	8,392
Marine	114,075	206,251	Fixed public teleg.-telephone	9	8
Ship	111,690	201,688	International control-fixed	8	7
Alaskan	1,674	2,300	Fixed public telephone	8	7
Coastal and other	711	2,263	Fixed public telegraph	11	9
Public safety	50,888	72,215	Satellite earth stations	1	8
Police	17,156	22,960	Satellites in orbit	1	4
Fire	10,121	12,972	<b>Experimental services</b>	812	1,049
Forestry conservation	4,334	5,820	<b>Community antenna relay service</b>	-	3 117
Highway maintenance	5,747	7,595	<b>Radio operators</b>	1,000	3,688
Special emergency	6,166	9,358	Commercial operators	2,971	3,423
Other	7,364	13,510	Amateur operators	259	255

- Represents zero.

<sup>1</sup> Each license, construction permit, and license is counted as one Station; therefore, a station might be counted more than once.

<sup>2</sup> Stations licensed or held.

Source: Federal Communications Commission; *Annual Report*.

# No. 766. COMMERCIAL BROADCAST STATIONS, NUMBER AND REVENUES: 1950 TO 1969

[Includes Puerto Rico and Virgin Islands. Total broadcast revenues are defined as total time sales of all networks and stations, less commissions to agencies and plus incidental revenues, such as sale of talent and program material. See also *Historical Statistics, Colonial Times to 1967*, series R 104-105 and R 114-115]

STATION	1950	1955	1960	1964	1965	1966	1967	1968	1969
<b>Stations reporting, Dec. 31</b>	2,336	3,179	4,218	4,777	4,867	5,008	5,100	5,236	5,309
<b>Revenues</b> .....mil. dol.	550	1,198	1,866	2,525	2,757	3,075	3,183	3,544	3,882
<b>AM and AM-FM:</b>									
Stations reporting, Dec. 31	2,143	2,704	3,470	3,896	3,941	4,019	4,076	4,161	4,194
Revenues <sup>1</sup> .....mil. dol.	443	452	592	719	777	853	885	995	1,052
<b>FM (independents):</b>									
Stations reporting, Dec. 31	86	38	218	306	338	381	405	433	442
Revenues.....mil. dol.	1	1	6	13	16	19	23	28	33
<b>TV:</b>									
Stations reporting, Dec. 31	107	437	530	575	588	608	610	642	673
Revenues <sup>2</sup> .....mil. dol.	106	745	1,269	1,793	1,965	2,203	2,275	2,521	2,796

<sup>1</sup> Prior to 1960, includes 4 national networks and 3 regional networks; 1960-1967, includes 4 national networks; thereafter, includes 7 national networks (CBS, MBS, NBC and ABC's 3 AM and 1 FM).

<sup>2</sup> Includes 4 networks through Sept. 15, 1955; 3 thereafter.

Source: Federal Communications Commission; annual releases, *AM-FM Broadcast Financial Data* and *TV Broadcast Financial Data*.

**No. 767. COMMERCIAL BROADCAST STATIONS ON THE AIR—STATES AND OTHER AREAS: JANUARY 1, 1970**

STATE OR OTHER AREA	Total	AM	FM	TV	STATE OR OTHER AREA	Total	AM	FM	TV
<b>Total</b> .....	6,983	4,256	2,044	683	Montana	58	41	7	10
<b>United States</b> .....	6,902	4,209	2,021	672	Nevada	35	20	8	7
Alabama	200	134	51	15	New Hampshire	38	25	10	3
Alaska	28	18	3	7	New Jersey	62	32	26	4
Arizona	85	59	15	11	New Mexico	81	55	19	7
Arkansas	126	84	35	7	New York	275	167	91	27
California	426	231	145	50	North Carolina	285	195	71	19
Colorado	104	67	26	11	North Dakota	50	27	11	12
Connecticut	63	38	20	5	Ohio	253	116	108	29
Delaware	14	10	4	-	Oklahoma	108	64	35	9
Dist. of Columbia	18	6	6	6	Oregon	109	80	17	12
Florida	303	191	88	24	Pennsylvania	301	169	100	23
Georgia	241	169	57	15	Rhode Island	24	15	7	2
Hawaii	39	25	4	10	South Carolina	149	101	37	11
Idaho	56	42	7	7	South Dakota	45	29	6	10
Illinois	237	121	92	24	Tennessee	216	139	61	16
Indiana	172	83	72	17	Texas	462	285	122	55
Iowa	120	73	35	12	Utah	44	31	10	3
Kansas	93	57	24	12	Vermont	24	18	4	2
Kentucky	172	102	60	10	Virginia	188	123	53	12
Louisiana	146	90	41	15	Washington	148	96	39	13
Maine	56	36	13	7	West Virginia	90	58	23	9
Maryland	88	52	31	5	Wisconsin	188	97	74	17
Massachusetts	111	62	38	11	Wyoming	33	29	1	3
Michigan	220	124	76	20	<b>Other areas</b> .....	81	47	23	11
Minnesota	134	83	39	12	Puerto Rico	72	43	21	8
Mississippi	142	99	34	9	Guam	3	1	1	1
Missouri	166	104	41	21	Virgin Islands	6	3	1	2

Source: Federal Communications Commission; annual releases, *AM-FM Broadcast Financial Data* and *TV Broadcast Financial Data*, and unpublished data.

**No. 768. PERCENT OF HOUSEHOLDS WITH TELEVISION SETS: 1955 TO 1969**

[For composition of regions, see figure I, p. xii; for definition of standard metropolitan statistical areas (SMSA's), see text, p. 2. See *Historical Statistics, Colonial Times to 1957*, series R 98, for number of families with TV]

ITEM	June 1955 <sup>1</sup>	May 1960	August 1965	June 1967	January 1969	PERCENT OF TELEVISION HOUSEHOLDS HAVING—			
						UHF set <sup>2</sup>		Color set	
						June 1967	January 1969	June 1967	January 1969
All households.....	100	100	100	100	100	(X)	(X)	(X)	(X)
Percent with TV.....	67	88	92	94	95	(X)	(X)	(X)	(X)
Television households, total.....	(X)	(X)	(X)	(X)	(X)	42	55	19	32
By area:									
Inside SMSA's.....	78	91	94	95	96	45	59	21	34
Outside SMSA's.....	50	82	89	92	94	37	47	17	28
By region:									
Northeast.....	80	92	94	95	96	41	55	18	29
North Central.....	72	89	94	95	96	47	58	21	34
South.....	53	82	90	92	94	38	51	16	29
West.....	62	87	92	93	95	43	57	24	40
By number of sets:									
No set.....	33	12	8	6	5	(X)	(X)	(X)	(X)
1 set.....	65	77	73	69	66	35	47	13	22
2 sets or more.....	2	11	20	25	29	61	78	37	54

X Not applicable. <sup>1</sup> Excludes Alaska and Hawaii. <sup>2</sup> Sets equipped for ultrahigh frequency reception.

Source: Dept. of Commerce, Bureau of the Census; *Current Housing Reports*, Series H-121.

## No. 769. TELEVISION BROADCAST INDUSTRY FINANCES: 1960 TO 1969

[Money figures in millions of dollars. Includes Puerto Rico and Virgin Islands. See also headnote, table 706. See also *Historical Statistics, Colonial Times to 1957*, series R 114-117]

ITEM	1960	1965	1966	1967	1968	1969
Number of networks, Dec. 31.....	3	3	3	3	3	3
Number of stations reporting, Dec. 31.....	590	588	608	619	642	673
VHF.....	(NA)	(NA)	(NA)	449	452	456
UHF.....	(NA)	(NA)	(NA)	105	118	142
Broadcast revenues.....	1,269	1,965	2,203	2,275	2,521	2,796
3 networks (incl. owned and operated stations).....	641	1,024	1,166	1,217	1,308	1,467
Other stations.....	628	941	1,037	1,059	1,213	1,329
Broadcast expenses of networks and stations.....	1,025	1,517	1,710	1,861	2,020	2,243
3 networks (incl. owned and operated stations).....	546	862	980	1,057	1,129	1,241
Other stations.....	479	655	731	804	897	1,001
Broadcast income before Federal income tax.....	244	448	493	415	495	554
3 networks (incl. owned and operated stations).....	95	162	187	160	179	226
Other stations.....	149	286	306	255	316	328
BROADCAST REVENUES						
Broadcast revenues, net.....	1,269	1,965	2,203	2,275	2,521	2,796
Commissions to regularly established agencies, representatives, brokers, and others.....	235	363	417	426	474	529
Broadcast revenues, gross.....	1,504	2,328	2,620	2,701	2,995	3,325
Revenues from sales to advertisers.....	1,466	2,266	2,557	2,634	2,916	3,235
Network sales.....	747	1,142	1,302	1,359	1,424	1,669
National non-network sales.....	469	796	882	883	1,010	1,119
Local sales.....	240	328	373	392	482	547
Other revenues (non-advertising).....	48	62	63	67	79	90

NA Not available. 1 Excludes part-time and satellite stations.

Source: Federal Communications Commission; annual release, *TV Broadcast Financial Data*, and unpublished data.

## No. 770. TELEVISION STATIONS—MULTIPLE OWNERSHIP AND NEWSPAPER AFFILIATION: 1968

Table 770 shows the number of television stations in the United States and possessions, by type of station, by size of market revenue, and by ownership, during 1968, including satellites. Station; "newspaper affiliated," those by size of market revenue]

TYPE OF STATION	ALL MARKETS		TOP 10 MARKETS		TOP 25 MARKETS		TOP 50 MARKETS	
	Stations	Revenue	Stations	Revenue	Stations	Revenue	Stations	Revenue
All stations.....	666	1,504	67	605	128	879	218	1,116
	349	1,174	50	547	94	762	156	950
	52.4	78.1	74.6	90.4	73.4	86.7	71.6	85.1
	108	285	13	84	26	148	40	195
	241	889	37	494	68	615	110	755
Singly owned.....	317	330	17	58	34	117	62	166
Percent of total.....	47.6	21.9	25.4	9.6	26.6	13.3	28.4	14.9
Newspaper affiliated.....	52	133	6	53	12	86	15	96
Non-newspaper affiliated.....	265	197	11	5	22	31	47	70
Network affiliated stations.....	561	1,325	30	461	76	718	149	941
Multiple owned.....	303	1,015	24	407	60	611	115	792
Newspaper affiliated.....	95	230	4	35	14	94	27	140
Non-newspaper affiliated.....	208	785	20	373	46	518	89	652
Singly owned.....	258	310	6	53	16	106	34	149
Newspaper affiliated.....	48	131	6	53	11	84	14	94
Non-newspaper affiliated.....	210	179	-	-	5	22	20	55
Non-network affiliated stations.....	105	179	37	145	52	162	69	175
	46	159	26	140	34	131	41	158
	13	55	9	49	12	64	13	55
	33	104	17	91	22	97	28	103
Singly owned.....	59	20	11	5	18	11	28	17
Newspaper affiliated.....	4	2	-	-	1	2	1	2
Non-newspaper affiliated.....	55	18	11	5	17	9	27	15

- Represents zero.

Source: Federal Communications Commission; annual release, *TV Broadcast Financial Data*.

## No. 771. RADIO BROADCAST INDUSTRY FINANCES: 1960 TO 1969

[Money figures in millions of dollars. Includes Puerto Rico and Virgin Islands. See also headnote, table 766, and *Historical Statistics, Colonial Times to 1957*, series R 103-107]

ITEM	1960	1965	1966	1967	1968	1969
Number of networks, Dec. 31.....	4	4	4	4	7	7
Number of stations reporting, Dec. 31.....	3,688	4,279	4,400	4,481	4,594	4,636
AM and AM-FM.....	3,470	3,941	4,019	4,076	4,161	4,104
FM independents <sup>1</sup> .....	218	338	381	405	433	442
Broadcast revenues.....	598	793	872	907	1,023	1,086
7 networks (incl. owned and operated stations) <sup>2</sup> .....	63	74	79	77	81	88
Other stations.....	535	719	793	830	942	1,000
Broadcast expenses of networks and stations.....	552	715	775	826	910	985
7 networks (incl. owned and operated stations) <sup>2</sup> .....	66	71	76	79	86	88
Other stations.....	486	644	699	747	824	897
Broadcast income before Federal income tax.....	46	78	97	81	113	101
7 networks (incl. owned and operated stations) <sup>2</sup> .....	-3	3	4	-2	-6	-2
Other stations.....	49	75	93	83	118	103
BROADCAST REVENUES						
Broadcast revenues, net.....	598	793	872	907	1,023	1,086
AM and AM-FM.....	592	777	853	885	995	1,052
FM independents <sup>1</sup> .....	6	16	19	23	28	33
Commissions to regularly established agencies, representatives, brokers and others.....	67	37	98	102	119	123
Broadcast revenues, gross.....	665	880	970	1,009	1,142	1,214
Revenues from sales to advertisers.....	654	868	958	997	1,130	1,200
Network sales.....	45	54	67	58	55	51
National non-network sales.....	208	261	293	298	342	349
Local sales.....	401	553	608	641	733	800
Other revenues (non-advertising).....	11	12	12	12	12	14

<sup>1</sup> FM stations not associated with AM stations.

<sup>2</sup> Through 1967, 4 national networks; thereafter, 7 national networks (CBS, MBS, NBC, and ABC's 3 AM and 1 FM).

Source: Federal Communications Commission; annual release, *AM-FM Broadcast Financial Data*, and unpublished data.

## No. 772. NEWSPRINT CONSUMPTION, NEWSPAPER PAGES, AND CIRCULATION: 1950 TO 1970

[Prior to 1960, excludes Alaska and Hawaii]

YEAR	NEWSPRINT CONSUMPTION (1,000 short tons)						NEWSPAPER PAGES PER ISSUE <sup>2</sup>		NEWSPAPER CIRCULATION PER FAMILY	
	Total <sup>1</sup>	By newspapers <sup>2</sup>					Daily	Sun- day	Daily	Sun- day
		Total	Advertising		Other content					
			Amount	Per- cent	Amount	Per- cent				
1950.....	5,863	5,521	3,279	59.4	2,242	40.6	36	112	1.23	1.06
1955.....	6,484	6,173	3,827	62.0	2,346	38.0	40	132	1.16	0.97
1960.....	7,312	6,800	4,148	61.0	2,652	39.0	43	142	1.12	0.91
1965.....	8,442	7,851	4,760	60.5	3,101	39.5	50	167	1.05	0.85
1966.....	9,099	8,402	5,221	61.7	3,241	38.3	53	180	1.06	0.85
1967.....	9,159	8,518	5,213	61.2	3,305	38.8	53	178	1.05	0.84
1968.....	9,162	8,521	5,274	61.9	3,247	38.1	55	186	1.03	0.82
1969.....	9,820	9,133	5,662	62.0	3,471	38.0	49	152	1.00	0.80
1970 (prel.).....	9,764	9,081	5,585	61.5	3,496	38.5	48	153	0.99	0.78

<sup>1</sup> Production plus imports minus exports adjusted for year-end change in news-domestic mill stocks.  
<sup>2</sup> Records, Inc. Through 1968, newspaper pages per issue based on average in 30 cities; thereafter, on average in 110 cities.

Source: Dept. of Commerce, Bureau of Domestic Commerce; unpublished data.

No. 773. DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, 1950 TO 1970, AND BY STATES, 1970

[Circulation in thousands. As of October 1, except number of newspapers, beginning 1965, as of January 1 of following year. Prior to 1960, excludes Alaska and Hawaii. For English language newspapers only. See also *Historical Statistics, Colonial Times to 1967*, series R 169-172]

YEAR AND STATE	DAILY NEWSPAPERS						SUNDAY NEWS- PAPERS	
	Total		Morning		Evening		Num- ber	Net paid circula- tion
	Num- ber	Net paid circula- tion	Num- ber	Net paid circula- tion	Num- ber	Net paid circula- tion		
1950.....	1,772	53,829	322	21,266	1,450	32,563	549	46,582
1955.....	1,780	59,147	316	22,183	1,464	36,964	541	46,448
1960.....	1,763	58,882	312	24,029	1,459	34,853	563	47,869
1965.....	1,751	60,368	320	24,107	1,444	36,251	562	49,600
1966.....	1,754	61,397	324	24,306	1,444	36,592	578	49,282
1967.....	1,749	61,551	327	25,282	1,438	36,279	573	49,224
1968.....	1,752	62,535	328	25,838	1,443	36,697	578	49,693
1969.....	1,758	62,060	333	25,812	1,443	36,248	585	49,675
1970								
United States <sup>1</sup> .....	1,748	62,108	334	25,934	1,429	36,174	586	49,218
Alabama.....	22	715	7	211	15	503	15	620
Alaska.....	6	71	1	12	5	59	1	17
Arizona.....	13	440	3	221	10	219	5	362
Arkansas.....	1 35	426	5	165	31	262	11	380
California.....	1 126	5,689	22	2,422	104	3,267	38	4,825
Colorado.....	26	718	3	257	23	460	9	755
Connecticut.....	27	937	6	287	21	651	7	630
Delaware.....	3	159	1	47	2	112	—	—
District of Columbia.....	3	1,012	1	500	2	512	2	996
Florida.....	50	2,060	17	1,298	33	762	29	1,830
Georgia.....	32	994	6	402	26	592	11	928
Hawaii.....	5	235	1	74	4	161	2	187
Idaho.....	15	180	4	86	11	94	5	143
Illinois.....	1 92	3,988	22	2,017	71	1,969	20	2,613
Indiana.....	1 80	1,689	9	456	72	1,233	19	1,149
Iowa.....	1 43	1,000	5	331	40	689	9	845
Kansas.....	1 50	668	5	231	46	427	15	446
Kentucky.....	2 27	771	5	331	22	439	18	872
Louisiana.....	23	771	4	377	19	394	10	671
Maine.....	9	267	5	204	4	62	1	112
Maryland.....	12	709	4	209	8	500	4	680
Massachusetts.....	47	2,393	6	1,242	41	1,151	8	1,616
Michigan.....	56	2,512	2	610	54	1,902	13	2,189
Minnesota.....	1 30	1,117	5	415	26	702	7	991
Mississippi.....	20	323	4	95	16	228	8	228
Missouri.....	52	1,760	8	744	44	1,017	14	1,178
Montana.....	14	189	4	133	10	50	9	184
Nebraska.....	19	486	3	169	16	317	4	359
Nevada.....	7	150	2	60	5	91	4	126
New Hampshire.....	1 9	165	1	31	9	134	1	55
New Jersey.....	32	1,791	6	459	26	1,332	9	1,270
New Mexico.....	19	213	1	66	18	147	12	182
New York.....	1 80	7,488	21	4,329	60	3,159	16	6,400
North Carolina.....	48	1,265	9	592	39	673	19	921
North Dakota.....	1 10	188	3	46	8	142	3	106
Ohio.....	2 96	3,535	8	936	88	2,599	19	2,322
Oklahoma.....	53	849	9	418	44	430	42	790
Oregon.....	22	663	3	287	19	376	5	534
Pennsylvania.....	1 109	3,972	28	1,256	85	2,716	10	2,983
Rhode Island.....	7	321	1	67	6	254	2	218
South Carolina.....	17	563	8	395	9	168	7	440
South Dakota.....	12	171	1	3	11	168	4	121
Tennessee.....	2 32	1,128	7	505	25	623	14	946
Texas.....	1 112	3,244	23	1,476	89	1,767	83	3,160
Utah.....	5	260	1	108	4	152	4	257
Vermont.....	9	116	2	67	7	49	—	—
Virginia.....	2 32	1,011	10	465	22	546	13	722
Washington.....	1 23	1,035	5	301	19	734	12	963
West Virginia.....	31	490	9	230	22	260	9	377
Wisconsin.....	37	1,206	2	236	35	970	6	825
Wyoming.....	9	75	6	53	3	22	3	49

account for all-day papers listed in morning and evening figures (circu-

of Texarkana, Ark.-Tex., and Bristol, Tenn.-Va., papers in individual between States); for Covington, Ky., papers also included in Ohio.

Source: Editor & Publisher Company, New York, N.Y.; Editor & Publisher Year Book—1971. (Copyright.)

No. 774. NEWSPAPERS AND PERIODICALS: 1950 TO 1971

[Prior to 1960, excludes Alaska and Hawaii. Data refer to year of compilation of the Directory cited as the source, i.e., generally to year preceding year shown]

FREQUENCY OF PUBLICATION	1950	1955	1960	1965	1968	1969	1970	1971
<b>Newspapers</b> .....	<b>12,115</b>	<b>11,415</b>	<b>11,315</b>	<b>11,383</b>	<b>11,293</b>	<b>11,336</b>	<b>11,383</b>	<b>11,350</b>
Semiweekly.....	337	324	324	357	387	413	423	412
Weekly.....	9,794	9,126	8,979	8,089	8,858	8,855	8,903	8,888
Daily.....	1,894	1,860	1,854	1,843	1,833	1,833	1,838	1,818
Other.....	90	105	158	194	215	235	210	232
<b>Periodicals</b> .....	<b>6,960</b>	<b>7,648</b>	<b>8,422</b>	<b>8,990</b>	<b>9,400</b>	<b>9,434</b>	<b>9,573</b>	<b>9,587</b>
Weekly.....	1,443	1,602	1,580	1,716	1,796	1,787	1,856	1,873
Semi-monthly <sup>1</sup> .....	416	503	527	550	606	587	589	544
Monthly.....	3,694	3,782	4,113	4,195	4,331	4,353	4,314	4,277
Bi-monthly.....	436	608	743	876	899	869	967	1,065
Quarterly.....	604	674	895	1,030	1,078	1,084	1,108	1,124
Other.....	367	479	564	623	690	724	749	884

<sup>1</sup> Includes fortnightly prior to 1968.

Source: N. W. Ayer and Son, Inc., Philadelphia, Pa.; annual release, *Ayer Directory of Newspapers, Magazines and Trade Publications*. (Copyright.)

No. 775. NEWSPAPERS AND PERIODICALS—CIRCULATION AND RECEIPTS: 1958, 1963, AND 1967

[Circulation in thousands; receipts in millions of dollars. See also *Historical Statistics, Colonial Times to 1957*, series R 173-180]

TYPE OF PUBLICATION	1958			1963			1967		
	Circulation per issue <sup>1</sup>	Receipts		Circulation per issue <sup>1</sup>	Receipts		Circulation per issue <sup>1</sup>	Receipts	
		Total	Advertising		Total	Advertising		Total	Advertising
<b>Newspapers, total<sup>2</sup></b> .....	(X)	3,458	2,444	(X)	4,255	3,024	(X)	5,550	3,896
Daily and Sunday.....	(X)	3,125	2,209	(X)	3,792	2,728	(X)	4,062	3,653
Morning <sup>4</sup> .....	1,908	85	65	2,602	124	81	3,442	206	135
Evening <sup>4</sup> .....	18,225	501	410	13,071	681	600	14,446	909	684
Morning and Sunday.....	29,523	724	497	31,063	891	628	31,623	1,301	951
Evening and Sunday.....	26,489	705	500	32,424	940	678	31,552	1,055	780
Morning and evening <sup>4</sup> .....	619	30	21	717	37	27	651	41	31
Morning, evening, and Sunday.....	35,227	1,016	725	34,002	1,119	819	36,042	1,443	1,065
Weekly and other.....	(X)	298	235	(X)	379	296	(X)	321	248
Weekly <sup>4</sup> .....	29,828	248	195	(?)	288	210	(?)	248	182
Other <sup>5</sup> .....	3,051	50	41	(?)	91	77	(?)	73	61
Not specified.....	(X)	35	(NA)	(X)	84	(NA)	(X)	267	(NA)
<b>Periodicals, total</b> .....	<b>408,364</b>	<b>1,639</b>	<b>1,018</b>	<b>(X)</b>	<b>2,036</b>	<b>1,242</b>	<b>(X)</b>	<b>2,668</b>	<b>1,547</b>
Farm.....	18,850	67	55	14,305	54	46	11,968	57	46
General.....	14,872	48	40	12,087	43	37	10,219	41	32
Specialized.....	3,978	19	16	2,218	11	9	1,896	16	14
Specialized.....	51,577	380	294	(X)	535	413	(X)	675	525
Industrial, engineering, technical.....	11,399	212	182	12,113	247	217	12,952	353	308
Merchandising.....	4,686	72	66	(S)	127	106	(NA)	145	121
Professional, institutional, service.....	35,492	96	47	(S)	121	65	8,303	159	87
Not specified.....	(X)	(X)	(X)	(S)	40	25	(X)	17	9
General.....	241,741	887	544	(X)	1,167	711	(X)	1,473	880
Comics.....	68,035	22	1	27,594	11	1	15,178	9	(Z)
Women and home services.....	70,729	207	133	72,573	316	204	74,541	362	245
General entertainment.....	98,378	530	319	102,501	659	380	130,567	847	457
General news.....	7,780	101	73	7,375	141	106	9,652	204	146
Business news.....	1,819	26	18	(S)	28	15	1,409	40	25
Not specified.....	(X)	(X)	(X)	(X)	12	5	(X)	11	6
Other.....	96,196	265	123	141,943	230	73	127,215	284	97
Not specified.....	(X)	40	(NA)	(X)	49	(NA)	(X)	180	(NA)

NA Not available. S Does

Z Less than \$500,000. <sup>1</sup> Incl

on a given day. Figures are totals c

<sup>2</sup> Incl

<sup>3</sup> No

with less than 10 employees were not required to file reports speci-

portion of "Not specified" is included in "Weekly and other."

<sup>4</sup> Includes those issued on Sunday only.

<sup>5</sup> Includes newspapers issued more than one but less than 4 times a week, and those issued less frequently than

once a week. <sup>6</sup> Partially estimated.

X Not applicable.

defined as the sum of all editions published

specified by kind.

with less than 10 employees were not required to file reports speci-

portion of "Not specified" is included in "Weekly and other."

<sup>4</sup> Includes those issued on Sunday only.

<sup>5</sup> Includes newspapers issued more than one but less than 4 times a week, and those issued less frequently than

once a week. <sup>6</sup> Partially estimated.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Manufactures: 1965*, Vol. II, part I and *U.S. Census of Manufactures: 1967*, Vol. II, part 2.





## No. 777. NEW BOOKS AND NEW EDITIONS PUBLISHED, BY SUBJECT: 1950 TO 1970

[Comprises new books (those published for the first time) and new editions (those published with changes in text or format). Excludes State and Federal publications; subscription books, except encyclopedias; dissertations; second, third, or fourth printings or impressions; periodicals and quarterlies; and pamphlets of under 49 pages. Beginning 1965, data not strictly comparable with earlier years because of internal shifts in classifications. See also *Historical Statistics, Colonial Times to 1957*, series R 165-167]

SUBJECT	1950	1955	1960	1965	1969			1970		
					Total	New books	New editions	Total	New books	New editions
<b>Total</b> .....	<b>11,022</b>	<b>12,589</b>	<b>15,012</b>	<b>28,595</b>	<b>29,579</b>	<b>21,787</b>	<b>7,792</b>	<b>36,071</b>	<b>24,288</b>	<b>11,783</b>
Agriculture.....	152	168	156	270	260	216	44	265	200	65
Art.....	357	347	470	971	1,082	856	206	1,169	852	317
Biography.....	603	833	879	085	1,161	718	443	1,536	735	801
Business.....	250	312	305	537	583	566	117	797	658	139
Education.....	256	274	848	054	842	721	121	1,178	842	336
Fiction.....	1,907	2,073	2,440	3,241	2,717	1,816	901	3,137	1,998	1,139
General works.....	345	387	282	634	724	508	216	846	668	278
History.....	516	665	865	1,682	1,021	1,191	730	1,095	1,010	985
Home economics.....	193	255	197	300	314	267	47	321	235	86
Juvenile.....	1,059	1,458	1,725	2,895	1,406	1,321	85	2,040	2,472	108
Language.....	148	108	228	527	408	365	113	472	339	133
Law.....	298	305	394	436	525	363	162	604	855	249
Literature.....	591	660	736	1,686	2,428	1,348	1,080	3,085	1,849	1,736
Medicine.....	443	534	520	1,218	1,190	928	262	1,476	1,144	332
Music.....	113	103	98	300	351	227	124	404	217	187
Philosophy, psychology.....	340	314	480	979	951	678	273	1,280	843	437
Poetry, drama.....	581	493	492	994	1,254	944	310	1,474	973	501
Religion.....	727	849	1,104	1,855	1,689	1,278	311	1,788	1,815	473
Science.....	705	801	1,089	2,562	2,853	1,909	354	2,858	1,955	403
Sociology, economics.....	515	520	754	3,242	4,462	3,210	1,246	5,912	3,867	2,045
Sports, recreation.....	188	200	286	591	734	585	149	709	583	216
Technology.....	497	477	698	1,153	1,035	884	151	1,411	930	211
Travel.....	288	366	466	883	1,140	802	347	1,394	848	546

Source: R. R. Bowker Co., New York, N.Y.; *Publishers' Weekly*. (Copyright, by Xerox Corporation.)

## No. 778. BOOKS AND PERIODICALS—AVERAGE RETAIL PRICES, BY SUBJECT: 1960 TO 1970

SUBJECT	AVERAGE PRICES OF BOOKS <sup>1</sup>				SUBJECT	AVERAGE PRICES OF PERIODICALS <sup>4</sup>			
	1960	1965	1969	1970		1960	1965	1969	1970
<b>Total</b> .....	<b>\$5.24</b>	<b>\$7.65</b>	<b>\$9.37</b>	<b>\$11.66</b>	<b>Total</b> .....	<b>\$5.32</b>	<b>\$6.95</b>	<b>\$9.31</b>	<b>\$10.41</b>
Agriculture.....	(NA)	8.04	8.97	10.42	Agriculture.....	2.84	3.83	4.97	5.17
Art.....	12.61	10.60	12.65	16.16	Business and economics.....	5.34	6.39	8.07	9.03
Biography.....	4.98	7.65	10.63	11.49	Chemistry and physics.....	11.80	18.42	26.60	33.45
Business.....	6.83	9.68	10.47	12.45	Children's periodicals.....	2.06	2.61	2.65	2.65
Children's books.....	2.74	3.11	3.85	4.05	Education.....	4.19	5.14	6.79	7.09
Economics.....	6.19	8.43	9.65	12.38	Engineering.....	5.88	7.70	10.98	12.07
Education.....	4.97	5.79	6.99	10.75	Fine and applied arts.....	4.94	5.92	6.97	7.50
History.....	5.91	8.83	10.64	14.75	History.....	4.60	5.30	6.34	6.90
Law.....	8.01	10.64	13.39	16.41	Home economics.....	4.43	5.37	6.84	7.56
Literature:					Industrial arts.....	4.60	6.63	7.13	7.59
General.....	3.59	6.90	8.67	11.05	Journalism, communications.....	4.08	5.32	6.00	6.36
Fiction.....	3.59	4.34	5.14	5.51	Labor and industrial relations.....	2.26	2.66	3.16	3.59
Poetry.....	3.31	3.92	7.26	9.36	Law.....	5.81	7.49	9.21	9.84
Drama.....	4.48	5.47	9.13		Library science.....	3.71	5.15	6.86	7.88
Medicine.....	8.41	11.88	13.89	18.05	.....	4.05	4.65	5.74	6.15
Music.....	5.56	8.04	9.03	11.44	.....	7.27	10.96	16.71	18.11
Religion.....	4.05	6.72	6.75	8.51	.....	10.28	14.02	20.77	23.44
Science.....	10.21	12.13	11.96	14.95	.....	4.05	4.65	5.49	5.84
Sports.....	4.80	6.58	7.45	9.96	.....	3.47	4.26	5.16	5.84
Technology.....	8.89	12.30	13.37	14.91	.....	4.77	5.67	6.63	6.72
					.....	9.57	11.85	15.40	17.12
					.....	4.62	5.26	6.88	7.31
					.....	8.90	10.81	14.18	16.86
					.....	6.19	6.19	7.84	8.47

NA Not available. <sup>1</sup> Excludes paperback books, government documents, and certain multi-volume encyclopedias. Refers to books published in year stated. <sup>2</sup> Includes sociology.

<sup>3</sup> Includes recreation. <sup>4</sup> Average annual subscription prices.

Source: 1960, Dept. of Health, Education, and Welfare, Office of Education; *The Cost of Library Materials: Price Trends of Publications*, Circular OE-15029A. Beginning 1965, R. R. Bowker Co., New York, N.Y., average prices of books, *Publishers' Weekly* and average prices of periodicals, *Library Journal*. (Copyright, by Xerox Corporation.)

## No. 779. BOOKS—IMPORTS AND TRANSLATIONS INTO ENGLISH: 1965 AND 1970

[Imports cover all books printed abroad and distributed in U.S. on exclusive basis. See also headnote, table 777]

SUBJECT	IMPORTS						LANGUAGE	TRANSLATIONS	
	1965			1970				1965	1970
	Total	New books	New editions	Total	New books	New editions			
Total.....	4,670	4,042	628	4,459	3,902	557	Total.....	1,749	1,232
Agriculture.....	80	74	6	64	55	9	French.....	404	305
Art.....	327	300	27	327	287	40	German.....	335	278
Biography.....	145	116	29	157	131	26	Italian.....	58	36
Business.....	42	39	3	109	102	7	Oriental.....	59	61
Education.....	60	56	4	135	130	5	Russian.....	253	139
Fiction.....	103	58	45	52	49	3	Scandinavian.....	51	55
General works.....	78	69	9	99	86	13	Spanish.....	53	39
History.....	299	243	56	245	197	48	Other.....	533	320
Home economics.....	50	45	5	36	28	8			
Juvenile.....	176	162	14	117	111	6			
Language.....	104	84	20	75	66	9			
Law.....	62	53	9	65	55	10			
Literature.....	284	231	53	250	215	35			
Medicine.....	313	274	39	264	232	32			
Music.....	48	38	10	53	42	11			
Philosophy, psy- chology.....	97	85	12	157	134	23			
Poetry, drama.....	188	162	26	165	135	30			
Religion.....	233	205	28	125	112	13			
Science.....	669	610	59	509	452	57			
Sociology, economics.....	598	517	81	881	789	92			
Sports, recreation.....	115	107	8	92	85	7			
Technical books.....	317	286	31	212	188	24			
Travel.....	282	228	54	270	221	49			

Source: R. R. Bowker Co., New York, N.Y.; *Publishers' Weekly*, Feb. 8, 1971. (Copyright, by Xerox Corporation.)

## No. 780. REGISTRATION OF COPYRIGHTS, BY SUBJECT MATTER: 1950 TO 1970

[For years ending June 30. Comprises copyrights issued to citizens of the United States and residents of foreign countries. For information on patents, see table 814. See also *Historical Statistics, Colonial Times to 1687*, series W 52-55]

SUBJECT MATTER OF COPYRIGHT	1950	1955	1960	1965	1969	1970
Total.....	210,564	224,732	243,926	293,617	301,258	316,466
Books (incl. pamphlets, leaflets, etc.).....	50,456	54,414	60,034	76,098	83,803	88,432
Periodicals (issues).....	55,436	59,448	64,204	78,307	80,706	83,882
Contributions to newspapers and periodicals.....	4,438	3,746	3,306	2,095	1,676	1,943
Lectures, sermons, addresses.....	1,007	813	835	848	1,155	1,669
Dramatic or dramatic-musical compositions.....	4,427	3,493	2,445	3,343	3,213	3,352
Musical compositions.....	52,309	57,527	65,558	80,881	83,608	88,949
Maps.....	1,638	2,013	1,812	3,262	2,024	1,921
Works of art, models, or designs.....	4,013	3,456	5,271	5,735	5,630	6,807
Reproductions of works of art.....	326	900	2,516	3,241	2,489	3,036
Drawings or plastic works of a scientific or technical character.....	1,316	1,350	768	1,239	552	835
Photographs.....	1,143	1,105	842	860	936	1,171
Scientific, literary, or artistic illustrations.....	4,809	3,793	3,343	2,927	2,837	3,373
Other.....	13,820	10,505	8,142	7,509	4,798	5,255
Motion picture photoplays.....	782	1,216	2,755	2,536	1,066	1,244
Motion pictures not photoplays.....	1,113	1,494	702	1,216	1,298	1,301
Renewals of all classes.....	14,631	19,519	21,393	23,520	25,667	23,316

Source: The Library of Congress; *Annual Report*.

## Section 19

### Power

This section presents statistics on various aspects of power and energy. The principal sources are the Federal Power Commission and the American Gas Association, Inc.

The Federal Power Commission, in its *Annual Report* and in periodic publications and surveys, issues information on the electric power and natural gas industries. Among annual reports are *Statistics of Privately Owned Electric Utilities in the United States*; *Statistics of Publicly Owned Electric Utilities in the United States*; *Sales of Firm Electric Power for Resale*; *Steam-Electric Plant Construction Cost and Annual Production Expenses*; *Hydroelectric Plant Construction Cost and Annual Production Expenses*; *Statistics for Interstate Natural Gas Pipeline Companies*; *Sales by Producers of Natural Gas to Natural Gas Pipeline Companies*; and *World Power Data*. Monthly reports include *Electric Power Statistics* and *Statistics of Major Interstate Natural Gas Pipeline Companies*. A principal survey is the *National Power Survey, 1964*, an updated edition of which is scheduled for release in mid-1971. These various publications contain national and State data on production of electricity, capacity of generating plants, fuels used in energy production, energy sales and consumption, hydroelectric power, construction costs and production expenses of power plants, and depreciation practices of electric and interstate gas pipeline utilities.

The Commission also issues data on electric utility charges in its annual *All-Electric Homes* and *Typical Electric Bills*; projections for the future in its periodic *Electric Power Requirements and Supply of the United States, by Regions, Present and Future*; and maps showing principal natural gas pipelines and electric facilities.

The American Gas Association, Inc., in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on gas utilities, including sales, revenues, customers, prices, and other financial and operating statistics. Other sources include the Bureau of Mines' *Minerals Yearbook*, containing data on coal, oil, and natural gas production and utilization; and the Edison Electric Institute's monthly and annual *Statistical Bulletin*, containing data on the distribution of electric energy by public utilities.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

#### No. 781. TOTAL HORSEPOWER OF ALL PRIME MOVERS: 1940 TO 1970

(In millions. As of January, except as noted. Before 1960, excludes Alaska and Hawaii, except as noted. Prime movers, which originally convert fuels or force (as wind) into mechanical power, which obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1957*, series S 1-14)

ITEM	1940	1950	1955	1960	1965	1969	1970 (prel.)
<b>Total horsepower.....</b>	<b>2, 773</b>	<b>4, 868</b>	<b>7, 158</b>	<b>11, 008</b>	<b>15, 096</b>	<b>19, 115</b>	<b>20, 419</b>
Automotive <sup>1 2</sup>	2, 511	4, 404	6, 632	10, 367	14, 305	18, 075	19, 325
Nonautomotive	262	464	526	641	790	1, 040	1, 094
Factories.....	22	33	36	42	48	53	54
Mines.....	7	22	31	35	40	44	45
Railroads <sup>3</sup>	92	111	60	47	24	53	54
Merchant ships and sailing vessels	49	423	24	24	19	19	22
Farms <sup>4</sup>	70	165	212	240	272	302	301
Electric central stations <sup>2</sup>	54	88	138	217	307	404	435
Aircraft <sup>3 5</sup>	47	422	426	37	55	165	183

<sup>1</sup> Includes passenger cars, trucks, buses, and motorcycles. <sup>2</sup> As of July 1. <sup>3</sup> Beginning 1965, not strictly comparable with earlier years. <sup>4</sup> Includes Alaska and Hawaii. <sup>5</sup> Includes about 1.2 million hp. in work animals and 20,000 in windmills. <sup>6</sup> Includes private planes and commercial airliners.

Source: The Twentieth Century Fund, J. F. Dewhurst and Associates, *America's Needs and Resources, A New Survey*; and John A. Waring, *Transactions of Canadian Sectional Meeting, World Power Conference, 1968*, and unpublished estimates.



# **No. 784. ELECTRIC ENERGY PRODUCTION AND INSTALLED GENERATING CAPACITY, BY CLASS OF OWNERSHIP AND TYPE OF PRIME MOVER: 1940 TO 1970**

[Production for calendar years; other data as of December 31. Prior to 1965, excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1967*, series S 15-35 and S 44-09]

ITEM	1940	1950	1955	1960	1965	1968	1969	1970 (prel.)
<b>Production (bil. kw.-hr.)</b> -----	<b>180</b>	<b>389</b>	<b>629</b>	<b>842</b>	<b>1,158</b>	<b>1,436</b>	<b>1,553</b>	<b>1,638</b>
Industrial plants <sup>1</sup> -----	38	60	82	88	102	107	111	108
Electric utilities (for public use)-----	142	329	547	753	1,055	1,329	1,442	1,530
Privately owned <sup>2</sup> -----	125	267	421	579	809	1,019	1,102	1,133
Percent of utility production-----	88.4	81.1	76.9	76.8	76.7	76.7	76.4	77.3
Publicly owned <sup>2</sup> -----	16	62	126	175	246	310	340	347
Municipal-----	6	15	26	37	50	64	70	71
Federal-----	9	40	89	112	145	171	183	186
Cooperatives and other-----	1	6	11	26	51	75	87	89
Source of energy (percent):								
Coal <sup>3</sup> -----	54.6	47.1	55.1	53.6	54.5	52.5	49.0	46.4
Oil-----	4.4	10.3	6.8	6.1	6.1	7.8	10.6	13.2
Gas-----	7.7	13.5	17.4	21.0	21.0	22.9	23.1	24.2
Hydro-----	33.4	29.2	20.7	19.3	18.4	16.7	17.3	16.2
Per kw. of capacity (kw.-hr.)-----	3,552	4,778	4,779	4,484	4,469	4,568	4,602	4,494
<b>Installed capacity (mil. kw.)</b> -----	<b>51</b>	<b>83</b>	<b>131</b>	<b>186</b>	<b>255</b>	<b>310</b>	<b>333</b>	<b>360</b>
Industrial plants <sup>1</sup> -----	11	14	16	18	18	19	19	19
Electric utilities (for public use)-----	40	69	114	168	236	291	313	340
Privately owned-----	34	55	87	128	178	221	240	263
Percent of utility capacity-----	80.2	80.1	75.9	76.5	75.2	75.8	76.6	77.2
Publicly owned <sup>2</sup> -----	6	14	28	40	59	70	73	78
Municipal-----	3	5	8	11	15	19	20	21
Federal-----	2	7	17	22	32	35	36	39
Cooperatives and other-----	(Z)	2	3	6	11	16	17	18
<b>TYPE OF PRIME MOVER</b>								
Electric utilities (for public use):								
Number of plants, total <sup>4</sup> -----	3,918	3,867	3,587	3,435	3,200	3,429	3,472	3,520
Hydro-----	1,474	1,468	1,381	1,331	1,231	1,207	1,188	1,185
Steam-----	1,163	1,051	1,045	1,060	1,068	1,206	1,272	1,327
Internal combustion-----	1,291	1,358	1,161	1,044	991	1,016	1,012	1,008
Production (bil. kw.-hr.)-----	142	329	547	753	1,055	1,329	1,442	1,530
Hydro (bil. kw.-hr.)-----	47	96	113	146	194	222	250	247
Steam (bil. kw.-hr.)-----	93	230	430	603	856	1,102	1,192	1,282
Internal combustion (bil. kw.-hr.)-----	2	4	4	4	5	5		
Installed capacity (mil. kw.)-----	40	69	114	168	236	291	313	340
Hydro-----	11	18	25	32	44	51	53	55
Steam-----	28	49	87	133	189	236	256	280
Internal combustion-----	1	2	2	3	3	4	4	4

Z Less than 500,000 kw.

<sup>1</sup> Plants of 100 kilowatts and over, including stationary powerplants of railroads.

<sup>2</sup> Noncentral stations included only in total prior to 1955; distributed to other publicly owned classes thereafter.

<sup>3</sup> Includes small percentage from wood and waste and also, in past few years, from nuclear fuel.

<sup>4</sup> Each prime mover type in combination plants counted separately.

<sup>5</sup> Includes gas turbine capacity: 6 million kilowatts in 1968 at 200 plants, 10 million kilowatts in 1969 at 268 plants, and 15 million kilowatts in 1970 at 320 plants.

Source: Federal Power Commission; press release no. 17372.

# **No. 785. UTILITY ELECTRIC ENERGY USE, 1960 TO 1969, AND PROJECTED REQUIREMENTS, 1970 TO 1990**

[Excludes generation by industrial facilities and railways having generating facilities of their own]

YEAR	ENERGY USE			PEAK LOAD		
	Billion kw.-hr.	Percent increase		Million kw.	Percent increase	
		From 1960	For each interval		From 1960	For each interval
1960-----	764	(X)	(X)	135	(X)	(X)
1965-----	1,060	39.7	7.1	189	37.0	15.6
1967-----	1,220	59.7	6.1	217	57.2	8.3
1968-----	1,334	74.6	9.3	244	76.8	12.4
1969 (prel.)-----	1,448	89.5	8.5	263	90.6	7.8
1970-----	1,527	99.9	14.5	278	101.4	13.9
1975-----	2,194	187.2	43.7	398	188.4	43.2
1980-----	3,086	303.9	40.7	556	302.0	39.7
1985-----	4,263	458.0	38.1	769	457.2	38.8
1990-----	5,852	666.0	37.3	1,055	665.2	37.3

X Not applicable. <sup>1</sup> Represents increase from 1964.

Source: Federal Power Commission; news release no. 16323, and unpublished data.

# No. 786. ELECTRIC UTILITIES—SUPPLY SYSTEMS AND GENERATING PLANTS, BY CLASS OF OWNERSHIP: 1950 TO 1969

[As of December 31. Prior to 1965, excludes Alaska and Hawaii. Excludes duplications of establishments operating in two or more States and nonutility plants producing primarily for industrial use]

ITEM	Total, all classes	Pri- vately owned	Cooper- atively owned	PUBLICLY OWNED			
				Total	Municipal	Federal	Other <sup>1</sup>
1950: Total electric supply systems.....	4,007	821	963	2,223	2,077	55	91
Utilities with generating plants.....	1,495	393	92	1,010	955	13	42
Number of generating plants.....	2,867	2,334	166	1,367	1,136	83	148
1960: Total electric supply systems.....	3,637	496	965	2,176	2,026	43	107
Utilities with generating plants.....	1,198	270	68	860	802	6	52
Number of generating plants.....	3,435	2,000	132	1,303	1,017	142	144
1965: Total electric supply systems.....	3,614	472	980	2,160	2,114	42	(?)
Utilities with generating plants.....	1,139	243	75	821	764	8	49
Number of generating plants.....	3,290	1,827	165	1,295	1,006	160	132
1968: Utilities with generating plants.....	1,117	242	77	798	735	9	54
Number of generating plants.....	3,429	1,942	165	1,322	1,013	169	140
1969: Utilities with generating plants.....	1,907	238	74	785	722	9	54
Number of generating plants.....	3,472	1,992	160	1,320	1,008	170	142

<sup>1</sup> Public utility districts and State projects. <sup>2</sup> Municipal includes "Other publicly owned."

# No. 787. FEDERAL ELECTRIC UTILITY PROJECTS—INSTALLED CAPACITY AND INVEST- MENT ALLOCATED TO ELECTRIC PLANT: 1960 TO 1969

[As of June 30. Comprises only electricity generating plant of these projects; excludes projects not primarily manufacturing electricity (e.g., West Point, Annapolis). Investments represent allocation to power projects for capital equipment and improvements. Reserves for depreciation not deducted]

PROJECT GROUP OR SYSTEM	INSTALLED CAPACITY (1,000 kw.)				INVESTMENT ALLOCATED <sup>1</sup> (mil. dol.)			
	1960	1965	1968	1969	1960	1965	1968	1969
Total.....	22,616	29,317	32,840	34,141	5,398	7,925	8,522	9,432
Percent capacity of all electric utilities.....	13.5	12.8	11.3	11.1	(X)	(X)	(X)	(X)
Central Valley: Bureau of Reclamation.....	630	1,014	1,130	1,141	138	294	238	238
Columbia Basin:								
Bonneville Power Administration (trans- mission).....	-	-	-	-	480	614	921	1,028
Bureau of Reclamation.....	2,282	2,282	2,316	2,333	277	676	273	303
Corps of Engineers.....	3,781	4,262	4,942	5,577	850	956	986	1,474
Hoover and Parker-Davis: Bureau of Reclama- tion.....	1,595	1,690	1,690	1,690	209	217	221	223
Missouri Basin:								
Bureau of Reclamation.....	397	678	1,161	693	304	520	577	494
Corps of Engineers.....	745	1,680	1,580	2,048	357	601	607	713
Southeastern Power Admin.: Corps of Engineers.....	1,271	1,677	1,807	1,807	410	547	585	589
Southwestern Power Administration:								
Southwestern Power Admin. (transmission). Corps of Engineers.....	-	-	-	-	27	37	49	53
Tennessee Valley Authority.....	11,032	13,023	16,063	16,101	2,054	2,685	3,113	3,360
Other projects.....	282	960	1,326	1,326	88	427	539	544
Bureau of Reclamation.....	218	905	1,262	1,262	62	400	510	515

- Represents zero. X Not applicable. <sup>1</sup> Includes estimates.

# No. 788. CONSUMPTION OF FUELS BY ELECTRIC UTILITIES: 1945 TO 1970

[In thousands of short tons, except as indicated. Prior to 1965, excludes Alaska and Hawaii. Includes use of fuels for stand-by purposes. See also *Historical Statistics, Colonial Times to 1967*, Series S 36-43]

ITEM	1950	1955	1960	1965	1968	1969	1970 (prel.)
Net generation by fuel.....billion kilowatt-hours..	233	434	607	861	1,107	1,192	1,282
Fuel consumed:							
Total coal equivalent.....million short tons..	138	207	266	369	481	524	583
Coal, including lignite.....million short tons..	92	144	177	245	298	311	322
Oil.....million (42-gal.) barrels..	75	75	85	115	189	251	362
Gas.....billion cubic feet..	629	1,153	1,725	2,321	3,148	3,488	3,894
Per kilowatt-hour:							
Coal.....pounds..	1.19	0.95	0.88	0.858	0.870	0.880	0.909
Oil.....gallons..	0.094	0.085	0.078	0.075	0.078	0.076	0.077
Gas.....cubic feet..	14.1	12.1	10.9	10.5	10.3	10.6	10.5

<sup>1</sup> Includes following kw.-hr., in billions: Nuclear power—4 in 1965, 13 in 1968, 14 in 1969, and 22 in 1970; wood waste, and geothermal power—1 in 1969 and 1 in 1970.

Source of tables 786-788: Federal Power Commission; annual summaries and related monthly reports.

**No. 789. ELECTRIC UTILITIES AND INDUSTRIAL PLANTS—INSTALLED GENERATING CAPACITY, BY TYPE OF PRIME MOVER AND CLASS OF OWNERSHIP, STATES: 1960 TO 1969**

[In thousands of kilowatts. As of December 31]

STATE	1960, total	1965, total	1968, total	Total	1969							
					Type of prime mover			Class of ownership of electric utilities				
					Electric utilities		Industrial plants	Total	Privately owned	Publicly owned		
					Fuel	Hydro				Municipal	Other <sup>1</sup>	
<b>U.S.</b>	<b>185,815</b>	<b>254,519</b>	<b>310,181</b>	<b>332,607</b>	<b>260,596</b>	<b>52,753</b>	<b>19,257</b>	<b>313,349</b>	<b>240,078</b>	<b>20,035</b>	<b>53,236</b>	
<b>N.E.</b>	<b>8,225</b>	<b>10,033</b>	<b>12,562</b>	<b>13,529</b>	<b>11,067</b>	<b>1,236</b>	<b>1,236</b>	<b>12,303</b>	<b>11,956</b>	<b>302</b>	<b>45</b>	
Maine	1,102	1,267	1,390	1,389	643	343	503	888	865	3	18	
N.H.	850	844	1,202	1,219	760	384	75	1,144	1,141	4	—	
Vt.	283	324	323	323	116	187	20	303	289	44	—	
Mass.	3,459	4,008	5,509	6,040	5,762	185	456	6,947	5,736	199	11	
R.I.	456	449	419	416	395	2	10	397	391	2	5	
Conn.	2,074	2,540	3,659	3,780	3,491	135	154	3,626	3,565	50	11	
<b>M.A.</b>	<b>27,847</b>	<b>36,126</b>	<b>41,745</b>	<b>46,831</b>	<b>39,351</b>	<b>5,546</b>	<b>1,934</b>	<b>44,897</b>	<b>41,497</b>	<b>266</b>	<b>3,133</b>	
N.Y.	12,360	17,463	19,051	20,467	15,580	3,970	508	10,940	16,096	131	3,123	
N.J.	4,909	6,097	7,696	8,461	7,558	345	283	8,108	8,187	58	2	
Pa.	10,578	11,965	14,998	17,013	15,518	1,231	1,164	16,749	16,064	77	8	
<b>E.N.C.</b>	<b>41,045</b>	<b>49,939</b>	<b>58,940</b>	<b>62,820</b>	<b>57,589</b>	<b>846</b>	<b>4,385</b>	<b>58,435</b>	<b>54,717</b>	<b>2,766</b>	<b>952</b>	
Ohio	11,841	13,279	15,586	16,897	15,630	2	1,196	15,641	14,902	724	15	
Ind.	7,384	9,324	10,653	11,156	9,921	93	1,141	10,015	9,636	370	—	
Ill.	10,034	13,110	16,128	16,566	15,070	34	553	16,004	15,314	646	144	
Mich.	7,923	9,346	11,173	11,862	10,480	351	1,032	10,930	9,791	867	173	
Wis.	3,863	4,830	5,501	6,400	5,579	366	464	5,945	5,074	251	620	
<b>W.N.C.</b>	<b>12,265</b>	<b>17,407</b>	<b>21,700</b>	<b>23,227</b>	<b>19,283</b>	<b>3,093</b>	<b>851</b>	<b>22,376</b>	<b>14,331</b>	<b>3,003</b>	<b>5,043</b>	
Minn.	2,809	3,542	4,233	4,384	3,726	136	622	3,862	3,230	536	97	
Iowa	2,139	2,749	3,538	3,561	3,302	133	127	3,435	2,726	497	213	
Mo.	2,813	4,291	5,690	6,930	6,030	801	108	6,831	5,389	633	300	
N. Dak.	879	755	1,139	1,128	708	400	20	1,108	226	15	867	
S. Dak.	557	1,482	1,649	1,725	333	1,384	9	1,717	293	40	1,385	
Nebr.	1,231	1,565	2,009	2,015	1,773	238	5	2,010	397	397	1,613	
Kans.	2,036	2,995	3,462	3,474	3,411	2	60	3,414	2,468	886	60	
<b>S.A.</b>	<b>25,836</b>	<b>38,094</b>	<b>47,001</b>	<b>51,237</b>	<b>43,026</b>	<b>5,290</b>	<b>2,920</b>	<b>48,317</b>	<b>43,782</b>	<b>2,525</b>	<b>2,010</b>	
Del.	465	639	857	853	823	—	30	823	779	44	—	
Md.	2,349	3,914	4,561	4,560	3,760	494	226	4,274	4,200	67	7	
D.C.	565	549	1,127	1,127	1,112	3	13	1,112	1,112	—	3	
Va.	4,105	5,578	5,892	6,735	5,414	842	479	6,266	5,973	52	232	
W. Va.	4,222	4,610	6,426	6,426	5,714	101	612	5,814	5,814	—	—	
N.C.	4,654	6,654	8,247	9,194	7,080	1,821	293	8,901	8,490	34	371	
S.C.	2,697	3,170	3,709	3,839	2,404	935	400	3,300	2,634	5	700	
Ga.	2,504	4,508	5,463	6,062	4,594	1,056	412	5,650	5,028	—	622	
Fla.	4,287	8,472	10,919	12,502	12,106	39	357	12,145	9,746	2,323	76	
<b>E.S.C.</b>	<b>17,573</b>	<b>24,911</b>	<b>28,243</b>	<b>30,091</b>	<b>24,078</b>	<b>5,103</b>	<b>911</b>	<b>29,180</b>	<b>10,671</b>	<b>404</b>	<b>18,106</b>	
Ky.	3,398	6,127	6,713	7,382	7,285	676	22	7,961	3,440	262	4,259	
Tenn.	7,974	8,691	9,703	9,717	7,444	1,094	279	9,458	1,172	(7)	0,266	
Ala.	5,068	8,748	9,570	10,102	7,181	2,433	487	9,015	5,034	(2)	4,681	
Miss.	1,133	1,345	2,251	2,280	2,167	—	123	2,167	2,026	142	—	
<b>W.S.C.</b>	<b>20,082</b>	<b>29,839</b>	<b>39,296</b>	<b>41,068</b>	<b>33,997</b>	<b>1,981</b>	<b>5,089</b>	<b>35,978</b>	<b>29,322</b>	<b>3,660</b>	<b>2,996</b>	
Ark.	1,437	2,321	3,019	3,029	1,812	909	303	2,721	1,628	77	1,017	
La.	4,050	6,004	7,581	8,234	6,583	—	1,651	6,583	5,856	726	—	
Okl.	2,274	3,145	3,825	4,275	3,678	555	42	4,233	3,211	173	849	
Tex.	12,321	18,370	24,921	25,530	21,025	517	3,088	22,442	18,020	2,683	1,130	
<b>Mt.</b>	<b>9,469</b>	<b>13,747</b>	<b>16,042</b>	<b>16,849</b>	<b>9,530</b>	<b>6,401</b>	<b>913</b>	<b>15,931</b>	<b>10,358</b>	<b>438</b>	<b>5,135</b>	
Mont.	1,309	1,404	1,837	1,837	320	1,512	5	1,832	1,032	—	750	
Idaho	1,294	1,205	1,292	1,292	9	1,251	32	1,261	1,039	13	209	
Wyo.	433	593	1,102	1,102	612	223	40	1,134	807	2	226	
Colo.	1,412	2,083	2,850	2,853	2,136	623	99	2,750	1,971	300	488	
N. Mex.	879	1,885	2,072	2,813	2,666	24	123	2,690	2,473	62	155	
Ariz.	2,482	3,511	4,200	4,246	2,063	1,870	303	3,943	1,433	2	2,507	
Utah	863	1,042	1,039	1,039	685	203	246	703	611	55	127	
Nev.	768	1,384	1,584	1,590	838	682	70	1,520	843	4	673	
<b>Pac.</b>	<b>23,453</b>	<b>34,423</b>	<b>44,653</b>	<b>46,954</b>	<b>22,675</b>	<b>23,256</b>	<b>1,022</b>	<b>45,932</b>	<b>23,444</b>	<b>6,671</b>	<b>15,817</b>	
Wash.	7,534	9,646	11,938	12,406	1,043	11,025	339	12,067	1,055	1,973	9,039	
Oreg.	2,798	3,353	4,265	5,168	179	4,829	160	5,008	1,596	139	3,273	
Calif.	13,121	20,350	27,006	27,087	20,331	7,322	334	27,653	19,900	4,445	3,305	
Alaska	(NA)	261	366	—	262	77	50	338	27	114	197	
Hawaii	(NA)	803	978	1,004	802	3	139	865	865	—	—	

<sup>1</sup> Represents zero. NA Not available. Z Less than 500 kw.

<sup>2</sup> Includes Federal, State, public utility districts, and cooperatives.

<sup>3</sup> Excludes Alaska and Hawaii.

Source: Federal Power Commission; annual summaries and related monthly reports.



# No. 790. ELECTRIC ENERGY—PRODUCTION, BY TYPE OF PRIME MOVER AND CLASS OF OWNERSHIP, STATES: 1960, 1965, AND 1969

[In millions of kilowatt-hours]

STATE	1960, total	1965, total	Total	Type of prime mover			Class of ownership of electric utilities			
				Electric utilities		Industrial plants	Total	Privately owned	Publicly owned	
				Fuel	Hydro				Municipal	Other <sup>1</sup>
U.S.....	841,616	1,157,583	1,552,757	1,191,990	250,193	110,575	1,442,182	1,102,162	69,614	270,406
N.E.....	32,670	44,078	61,198	51,170	5,228	4,800	56,398	55,433	851	115
Maine.....	4,066	5,854	7,218	2,526	1,018	4,444	4,444	4,413	16	15
N.H.....	2,589	2,938	5,285	3,679	1,269	847	4,938	4,935	3	-
Vt.....	918	821	1,042	123	841	78	964	848	116	-
Mass.....	14,348	20,969	26,755	24,915	789	1,051	25,704	25,038	652	15
R.I.....	1,816	1,396	1,588	1,537	3	48	1,540	1,499	3	38
Conn.....	8,303	12,102	19,310	18,390	418	502	18,808	18,700	61	47
M.A.....	122,138	166,189	206,122	170,013	26,863	9,245	196,877	173,484	867	22,526
N.Y.....	64,234	75,623	94,658	65,914	26,347	2,397	92,261	69,297	457	22,507
N.J.....	19,078	28,405	34,315	33,611	385	1,090	33,226	32,998	223	4
Pa.....	48,826	62,161	77,148	70,489	902	5,768	71,390	71,189	186	15
E.N.C.....	184,774	239,449	305,021	276,714	4,310	23,997	281,024	268,728	8,539	3,758
Ohio.....	56,785	64,186	85,113	78,381	8	6,723	78,389	76,218	2,070	101
Ind.....	34,461	48,055	59,017	51,809	591	6,617	52,400	51,284	1,116	-
Ill.....	46,823	58,983	71,984	69,210	153	2,621	69,363	67,260	1,654	449
Mich.....	33,030	47,492	60,837	58,552	1,793	5,552	56,285	51,438	3,044	803
Wis.....	15,676	20,703	28,071	28,762	1,825	2,484	25,887	22,527	655	2,405
W.N.C.....	47,291	67,452	94,792	76,676	13,626	4,489	90,303	59,784	7,489	23,030
Minn.....	11,405	15,653	19,628	15,866	827	2,935	16,693	15,284	1,198	211
Iowa.....	8,657	10,624	14,135	12,691	864	680	13,455	11,750	1,139	566
Mo.....	11,089	16,773	25,201	23,288	1,435	498	24,703	19,237	1,828	3,637
N.Dak.....	1,841	3,812	6,213	3,191	2,930	83	6,130	682	6	5,442
S.Dak.....	1,721	4,373	6,012	562	6,318	32	6,880	556	8	6,315
Nebr.....	4,365	5,415	7,379	6,130	1,237	12	7,367	-	863	6,504
Kans.....	8,222	11,302	15,325	15,070	6	249	15,076	12,275	2,447	354
S.A.....	120,433	172,880	247,654	216,253	13,736	17,664	229,989	215,346	8,371	6,273
Del.....	2,487	3,435	5,224	5,021	-	202	5,021	4,843	170	-
Md.....	10,668	18,098	22,966	20,074	1,859	1,533	21,433	21,219	183	30
D.C.....	1,017	614	3,024	2,977	(2)	47	2,977	2,977	-	(2)
Va.....	20,614	25,849	29,978	26,762	661	2,565	27,413	26,847	254	313
W.Va.....	19,739	25,470	39,244	35,016	417	3,810	35,434	35,434	-	-
N.C.....	21,374	32,574	49,824	43,196	4,936	1,692	48,132	46,961	26	1,145
S.C.....	12,375	15,058	18,217	12,660	3,035	2,522	15,694	12,619	13	3,062
Ga.....	12,479	18,777	28,025	21,991	3,054	2,980	25,044	23,722	21	1,323
Fla.....	19,731	32,405	51,153	48,566	274	2,312	48,840	40,725	7,716	400
E.S.C.....	93,261	116,801	145,903	123,000	17,645	5,258	140,645	46,677	1,581	92,387
Ky.....	20,032	31,729	38,300	35,560	2,678	63	38,238	11,985	1,250	25,003
Tenn.....	42,795	38,378	48,149	39,254	7,477	1,418	48,781	754	-	45,977
Ala.....	26,635	40,740	48,582	38,320	7,491	2,772	45,810	24,403	-	21,408
Miss.....	3,800	5,954	10,872	9,866	-	1,006	9,866	9,536	331	-
W.S.C.....	87,683	131,245	197,035	154,951	6,040	36,045	160,990	139,437	11,002	10,551
Ark.....	6,500	9,566	13,441	8,261	2,883	2,297	11,143	7,708	99	3,336
La.....	19,284	26,945	44,928	32,327	-	12,601	32,327	30,534	1,793	-
Okl.....	8,534	13,166	20,455	18,332	1,886	238	20,218	16,737	501	2,979
Tex.....	53,364	81,569	118,211	96,031	1,271	20,009	97,302	84,458	8,608	4,286
Mt.....	39,332	54,111	69,019	37,307	26,760	4,952	64,067	42,916	1,454	19,697
Mont.....	6,040	8,897	10,460	995	3,449	16	10,444	6,245	-	4,099
Idaho.....	6,315	6,802	6,442	(2)	6,280	161	6,280	5,099	80	1,102
Wyo.....	1,762	3,725	6,079	4,795	1,097	188	5,892	4,792	-	1,101
Colo.....	5,935	8,193	10,990	9,519	992	479	10,511	7,242	1,072	2,197
N.Mex.....	3,454	8,710	10,335	9,710	64	560	9,774	9,199	180	355
Ariz.....	9,458	9,941	14,222	6,710	6,063	1,449	12,773	4,369	10	8,393
Utah.....	4,172	4,325	4,862	1,965	1,114	1,783	3,079	2,199	108	772
Nev.....	2,796	3,519	5,629	3,612	1,701	316	5,613	3,671	4	1,837
Pac.....	113,434	165,378	226,013	85,905	135,984	4,124	221,889	100,358	29,461	92,070
Wash.....	35,417	50,260	72,133	3,668	67,387	1,078	71,055	4,113	8,607	58,336
Oreg.....	13,118	17,058	28,404	27,815	591	27,813	7,775	7,775	413	19,625
Calif.....	64,899	94,189	120,042	77,899	40,418	1,725	118,317	84,766	20,094	13,457
Alaska.....	(NA)	948	1,351	739	341	271	1,080	81	347	652
Hawaii.....	(NA)	2,924	4,083	3,600	24	459	3,624	3,624	-	-

- Represents zero. NA Not available. Z Less than 500,000 kw.-hr.

<sup>1</sup> Includes Federal, State public utility districts, and cooperatives.

<sup>2</sup> Excludes Alaska and Hawaii.

<sup>3</sup> Deduct.

Source: Federal Power Commission; annual summaries and related monthly reports.

# **No. 791. ELECTRIC LIGHT AND POWER INDUSTRY—ENERGY GENERATED, SALES, REVENUE, AND CUSTOMERS: 1950 TO 1970**

[Prior to 1960, excludes Alaska and Hawaii]

CLASS	1950	1955	1960	1965	1968	1969	1970
Energy generated <sup>1</sup> ..... bil. kw.-hr.	329	547	755	1,055	1,320	1,442	<sup>2</sup> 1,580
Sales to ultimate customers..... bil. kw.-hr.	<sup>3</sup> 281	<sup>3</sup> 481	683	953	1,202	1,307	1,391
Residential or domestic..... bil. kw.-hr.	67	125	196	281	368	408	448
Percent of total.....	23.8	26.0	28.7	29.5	30.6	31.2	32.2
Commercial and industrial:							
Small light and power..... bil. kw.-hr.	50	78	115	202	265	287	313
Large light and power..... bil. kw.-hr.	139	258	345	439	519	557	572
All other..... bil. kw.-hr.	17	20	27	37	50	55	58
Revenue from ultimate customers..... mil. dol.	<sup>3</sup> 5,086	<sup>3</sup> 8,020	11,516	15,158	18,580	20,139	22,066
Residential or domestic..... mil. dol.	1,932	3,323	4,856	6,329	7,802	8,532	9,416
Percent of total.....	38.0	41.4	42.2	41.8	42.0	42.4	42.7
Commercial and industrial:							
Small light and power..... mil. dol.	1,334	1,944	2,828	4,313	5,315	5,705	6,290
Large light and power..... mil. dol.	1,405	2,416	3,334	3,885	4,672	5,045	5,430
All other..... mil. dol.	258	337	498	632	791	857	930
Ultimate customers, Dec. 31..... 1,000.....	<sup>3</sup> 44,986	<sup>3</sup> 52,559	58,870	65,558	69,716	70,929	72,485
Residential or domestic..... 1,000.....	37,533	45,828	51,440	57,596	61,439	62,599	64,018
Commercial and industrial:							
Small light and power..... 1,000.....	5,466	6,150	6,760	7,420	7,707	7,745	7,865
Large light and power..... 1,000.....	235	402	454	310	334	349	353
All other..... 1,000.....	187	173	210	232	236	236	249

<sup>1</sup> Source: Federal Power Commission. <sup>2</sup> Preliminary. <sup>3</sup> Includes rural customers, not shown separately.  
Source: Edison Electric Institute, New York, N.Y.; *Statistical Year Book*, except as noted.

# **No. 792. ELECTRIC ENERGY SALES, BY CLASS OF SERVICE—STATES: 1969**

[In millions of kilowatt-hours]

STATE	Total <sup>1</sup>	Residential	Commercial	Industrial	STATE	Total <sup>1</sup>	Residential	Commercial	Industrial
<b>U.S.</b> .....	1,312,406	426,259	280,540	559,709	<b>S.A.—Con.</b>				
<b>N.E.</b> .....	52,141	19,336	13,351	18,222	W. Va.	15,309	3,452	2,286	9,455
Maine.....	4,806	1,569	699	2,363	N.C.	37,294	13,198	7,522	15,458
N.H.	3,811	1,308	541	1,367	S.C.	19,024	6,510	3,093	9,680
Vt.	2,346	1,077	415	720	Ga.	28,590	11,062	6,936	10,292
Mass.	22,024	8,406	6,737	7,339	Fla.	44,811	21,480	11,371	8,819
R.I.	3,686	1,259	1,020	1,256	<b>E.S.C.</b> .....	126,438	39,157	13,298	70,873
Conn.	15,068	5,717	3,939	5,177	Ky.	29,966	6,182	2,051	20,671
<b>M.A.</b> .....	190,972	55,240	45,579	80,219	Tenn.	50,433	16,940	5,170	27,587
N.Y.	83,590	28,255	25,203	27,310	Ala.	32,541	10,022	3,851	17,849
N.J.	35,637	10,948	9,390	14,859	Miss.	13,498	6,013	2,225	4,766
Pa.	71,746	21,037	10,980	38,060	<b>W.S.C.</b> .....	143,687	48,914	29,895	59,299
<b>E.N.C.</b> .....	262,292	78,418	50,158	124,149	Ark.	12,625	3,793	2,160	6,254
Ohio.....	82,201	20,389	11,952	47,348	La.	26,984	8,520	5,024	10,606
Ind.	36,490	12,461	5,853	18,021	Okl.	16,160	6,397	3,362	4,688
Ill.	66,842	20,546	17,134	24,444	Tex.	88,909	30,204	18,749	37,751
Mich.	53,936	16,832	10,094	25,885	<b>Mt.</b> .....	60,474	16,390	15,695	25,974
Wis.	23,323	9,190	5,095	8,461	Mont.	8,786	1,463	863	6,208
<b>W.N.C.</b> .....	84,447	34,250	17,442	29,923	Idaho.	10,211	2,185	2,097	5,956
Minn.	19,188	8,303	2,556	7,964	Wyo.	3,582	503	645	2,361
Iowa.	14,860	5,920	2,986	5,022	Colo.	9,892	3,533	3,826	2,174
Mo.	24,201	8,834	4,920	9,571	N. Mex.	5,208	1,351	1,597	1,794
N. Dak.	2,569	1,294	522	614	Ariz.	12,463	3,926	3,458	4,226
S. Dak.	2,591	1,466	743	272	Utah.	4,933	1,599	1,376	1,616
Nebr.	8,593	3,638	2,378	1,954	Nev.	5,399	1,855	1,743	1,639
Kans.	12,045	4,795	3,337	4,526	<b>Pac.</b> .....	188,026	59,645	49,410	76,783
<b>S.A.</b> .....	203,929	74,909	45,802	74,267	Wash.	47,047	14,823	5,884	26,500
Del.	4,305	1,064	770	2,440	Oreg.	24,592	9,479	5,877	8,945
Md. <sup>2</sup>	25,250	7,070	7,147	9,941	Calif.	111,392	33,709	36,651	39,684
Va.	28,446	10,473	6,677	8,182	Alaska.	949	447	376	75
					Hawaii.	3,446	1,187	622	1,579

<sup>1</sup> Includes "Other" service, not shown separately. <sup>2</sup> Includes District of Columbia.

Source: Federal Power Commission; *Annual Report*, and unpublished data.

# **No. 793. ELECTRIC UTILITIES—BALANCE SHEET AND INCOME ACCOUNT OF PRIVATELY-OWNED COMPANIES: 1940 TO 1969**

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Data cover reports of all companies with annual electric revenues over \$1 million representing about 98 percent of the privately-owned companies. See also *Historical Statistics, Colonial Times to 1967*, series V 128-142]

ITEM	1940	1950	1955	1960	1965	1968	1969
<b>COMPOSITE BALANCE SHEET</b>							
<b>Assets and other debits</b> .....	<b>15,477</b>	<b>20,523</b>	<b>30,992</b>	<b>44,742</b>	<b>56,395</b>	<b>71,099</b>	<b>78,316</b>
Electric utility plant.....	10,447	18,956	30,307	45,456	59,703	78,026	83,671
Provisions for depreciation and amortization <sup>1</sup> .....	(NA)	5,892	5,719	8,889	13,631	17,246	18,675
Net electric utility plant.....	(NA)	15,124	24,594	36,567	46,072	58,780	64,996
Other utility plant.....	<sup>2</sup> 3,960	2,485	3,402	4,852	6,613	7,914	8,378
Provisions for depreciation and amortization <sup>1</sup> .....	(NA)	534	878	963	1,418	1,794	1,825
Net other utility plant.....	(NA)	1,951	2,724	3,889	5,195	6,120	6,453
Total utility plant.....	14,407	21,441	33,709	50,308	66,315	83,940	92,049
Provisions for depreciation and amortization <sup>1</sup> .....	1,915	4,366	6,391	9,852	15,048	19,040	20,600
Net total utility plant.....	12,494	17,075	27,318	40,456	51,267	64,900	<sup>3</sup> 71,461
Other property and investments.....	1,380	1,237	933	1,004	1,247	1,465	1,680
Current and accrued assets.....	1,123	2,058	2,567	3,066	3,639	4,439	4,810
Deferred debits.....	480	153	174	216	242	205	365
<b>Liabilities and other credits</b> .....	<b>15,477</b>	<b>20,523</b>	<b>30,992</b>	<b>44,742</b>	<b>56,395</b>	<b>71,099</b>	<b>78,316</b>
Capital stock.....	6,471	7,621	10,404	13,322	15,668	17,746	18,584
Other paid-in capital.....	255	589	1,083	1,747	2,622	3,260	3,686
Earned surplus.....	860	1,346	2,191	3,736	5,712	7,742	8,608
Long-term debt.....	6,895	9,179	14,316	21,035	25,502	33,519	37,072
Current and accrued liabilities.....	692	1,527	2,381	3,112	4,222	5,646	6,943
Deferred credits and operating reserves.....	261	195	247	277	546	809	900
Contributions in aid of construction.....	43	66	109	188	294	386	430
Accumulated deferred income taxes.....	-	-	261	1,325	1,829	1,991	2,088
<b>COMPOSITE INCOME ACCOUNTS</b>							
Electric operating revenues.....	2,404	4,784	7,199	10,116	13,400	16,539	18,023
Electric operating expenses.....	1,667	3,828	5,702	7,917	10,296	12,778	13,999
Net electric operating revenues.....	737	956	1,497	2,199	3,104	3,761	4,124
Income from electric plant leased to others.....	7	5	3	2	3	3	3
Electric utility operating income.....	744	961	1,500	2,201	3,107	3,764	4,127
Other utility operating income.....	61	72	120	196	301	345	366
Total utility operating income.....	805	1,033	1,620	2,397	3,409	4,109	4,493
Other income.....	68	68	63	79	97	124	135
Total income.....	873	1,101	1,683	2,476	3,506	4,233	4,628
Income deductions.....	325	279	439	693	925	1,238	1,432
Net income.....	548	822	1,244	1,783	2,581	2,995	3,196

- Represents zero. NA. Not available. <sup>1</sup> Accumulated.

<sup>2</sup> Includes \$2,309 million unclassified as to utility departments.

<sup>3</sup> Includes utility plant adjustments of \$12 million, not shown separately.

Source: Federal Power Commission; *Statistics of Privately Owned Electric Utilities in the United States*.

# **No. 794. LARGEST PUBLIC UTILITY COMPANIES—ASSETS, REVENUES, INCOME, AND STOCKHOLDERS' EQUITY, BY RANK OF ASSETS: 1970**

[In millions of dollars, except percent. As of December 31 or calendar year, as applicable]

ASSET GROUP	INCLUDING TELEPHONE COMPANIES <sup>1</sup>				EXCLUDING TELEPHONE COMPANIES			
	Assets <sup>2</sup>	Operating revenues <sup>3</sup>	Net income	Stockholders' equity <sup>4</sup>	Assets <sup>2</sup>	Operating revenues <sup>3</sup>	Net income	Stockholders' equity <sup>4</sup>
<b>50 largest</b> .....	<b>131,846</b>	<b>40,665</b>	<b>5,156</b>	<b>53,668</b>	<b>82,569</b>	<b>23,740</b>	<b>2,988</b>	<b>29,686</b>
Lowest ten.....	9,253	2,587	379	3,677	8,782	2,391	348	3,442
Second ten.....	11,562	3,572	490	4,090	11,135	3,445	432	4,110
Third ten.....	14,848	4,702	510	4,868	13,944	4,489	605	4,611
Fourth ten.....	18,467	5,945	660	6,084	18,066	5,687	628	5,832
Highest ten.....	78,217	23,890	3,177	34,954	30,642	7,728	1,075	11,891
<b>Percent of total</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Lowest ten.....	7.0	6.4	7.4	6.9	10.6	10.1	11.6	11.6
Second ten.....	8.8	8.8	8.3	7.6	13.5	14.5	14.5	13.8
Third ten.....	10.9	11.6	9.9	9.1	16.9	18.9	16.9	16.5
Fourth ten.....	14.0	14.6	12.8	11.3	21.9	24.0	21.0	19.6
Highest ten.....	59.3	58.7	61.6	65.1	37.1	32.6	36.0	38.4

<sup>1</sup> American Telephone and Telegraph Co., and Continental Telephone Co.

<sup>2</sup> From subsidiaries. <sup>3</sup> Gross receipts from subsidiaries. <sup>4</sup> Gross receipts from subsidiaries, transportation, etc.

Source: Fortune, New York, N.Y.; adapted from *The Fortune Directory*. (Copyright, 1971, by Time Inc.)

# No. 795. RURAL ELECTRIFICATION ADMINISTRATION—ELECTRIC PROGRAM, SUMMARY OF OPERATIONS: 1940 TO 1970

[Includes data from date of first loan to borrowers in Virgin Islands (1940) and Puerto Rico (1952)]

ITEM	1940	1950	1955	1960	1965	1968	1969	1970 <sup>1</sup>
<b>Loans approved, cumulative, Dec. 31: <sup>2</sup></b>								
Borrowers <sup>3</sup> .....	791	1,076	1,077	1,087	1,103	1,101	1,068	1,096
Amount.....mil. dol.	361	2,312	3,125	4,266	5,793	6,822	7,151	7,496
<b>Systems in operation, Dec. 31: <sup>4</sup></b>								
Systems <sup>5</sup> .....	685	1,007	1,026	1,038	1,052	1,052	1,049	1,049
Miles energized <sup>6</sup> .....1,000	268	1,089	1,302	1,465	1,567	1,627	1,650	1,675
Consumers served.....1,000	674	3,413	4,251	4,826	5,541	5,086	6,197	6,422
<b>Borrowers' operations during year: <sup>7</sup></b>								
Energy generated.....mil. kw.-hr.	(NA)	1,077	3,255	4,922	8,833	14,500	18,073	21,100
.....w.-hr.	(NA)	7,270	14,996	20,057	39,104	60,017	56,031	60,744
.....w.-hr.	(NA)	6,884	15,739	27,269	42,668	58,303	66,421	74,381
.....il. dol.	(NA)	229	420	615	847	1,060	1,168	1,300
.....or con-								
sumer, all consumers.....kw.-hr.	(NA)	180	306	466	654	812	876	939
Residential consumers <sup>8</sup> .....kw.-hr.	(NA)	147	242	357	479	593	643	695
Total utility plant.....mil. dol.	(NA)	(NA)	2,706	3,697	4,978	6,167	6,593	7,000
Employees.....	(NA)	(NA)	(NA)	(NA)	31,702	34,563	35,771	36,900

NA Not available. <sup>1</sup> Preliminary, except loans approved.

<sup>2</sup> Net, i.e., excludes loans rescinded. For 1940, includes amounts not yet under loan contract.

<sup>3</sup> Organizations, mainly cooperatives, to which loans for extending central station electric service in rural areas are made. <sup>4</sup> Includes data at time of repayment of loan for borrowers. <sup>5</sup> Includes data at time of repayment of loan for borrowers. <sup>6</sup> Includes data at time of repayment of loan for borrowers. <sup>7</sup> Includes data at time of repayment of loan for borrowers. <sup>8</sup> Includes data at time of repayment of loan for borrowers.

<sup>6</sup> Pole miles of electric distribution and transmission line in service. <sup>7</sup> Excludes energy sales and revenues of power sold by one REA borrower to another. <sup>8</sup> Includes rural-nonfarm and farm consumers.

Source: Dept. of Agriculture, Rural Electrification Administration; *Annual Statistical Report—Rural Electrification Borrowers*.

# No. 796. WATER POWER—DEVELOPED AND ESTIMATED UNDEVELOPED, BY GEOGRAPHIC DIVISION: 1940 TO 1969

[In thousands of kilowatts. Prior to 1960, excludes Alaska and Hawaii. As of December 31. For composition of divisions, see fig. I, p. xii]

ITEM AND DIVISION	1940	1945	1950	1955	1960	1965	1968	1969
<b>DEVELOPED WATER POWER <sup>1</sup></b>								
<b>United States.....</b>	<b>12,075</b>	<b>15,892</b>	<b>18,675</b>	<b>25,742</b>	<b>33,180</b>	<b>44,490</b>	<b>48,741</b>	<b>50,248</b>
New England.....	1,115	1,170	1,280	1,385	1,520	1,495	1,487	1,495
Middle Atlantic.....	1,633	1,668	1,678	1,789	2,472	4,815	4,243	4,231
East North Central.....	790	818	901	943	920	886	930	933
West North Central.....	537	617	620	962	1,594	2,082	2,720	2,785
South Atlantic.....	2,224	2,604	2,767	3,536	3,773	5,170	6,255	6,271
East South Central.....	1,270	2,220	2,729	3,676	3,760	4,497	5,106	5,111
West South Central.....	140	374	406	948	1,661	1,661	1,768	1,840
Mountain.....	1,583	2,007	2,286	3,706	4,021	5,560	6,095	6,097
Pacific.....	2,783	4,345	5,979	8,898	13,578	17,424	21,122	22,485
<b>UNDEVELOPED WATER POWER</b>								
<b>United States.....</b>	<b>(NA)</b>	<b>277,140</b>	<b>87,604</b>	<b>86,895</b>	<b>114,200</b>	<b>124,087</b>	<b>129,709</b>	<b>128,900</b>
New England.....	(NA)	3,348	3,250	2,586	2,900	3,240	3,302	3,300
Middle Atlantic.....	(NA)	5,175	6,572	8,023	7,800	4,980	4,545	4,545
East North Central.....	(NA)	2,574	2,844	3,051	3,000	1,861	1,288	1,288
West North Central.....	(NA)	4,735	5,775	6,284	6,400	4,148	4,604	4,604
South Atlantic.....	(NA)	7,462	8,151	7,943	8,400	9,977	9,716	9,708
East South Central.....	(NA)	4,562	4,736	3,707	4,600	4,287	3,660	3,660
West South Central.....	(NA)	2,894	3,568	3,506	3,900	3,056	3,403	3,394
Mountain.....	(NA)	17,755	23,440	20,668	23,600	26,530	26,923	26,923
Pacific.....	(NA)	28,635	29,768	31,127	53,800	66,514	72,268	71,478

NA Not available.

<sup>1</sup> Capacity of actual installations only. Electric utilities and industrial plants, excluding pumped storage capacity. <sup>2</sup> 1947 data.

Source: Federal Power Commission; annual summaries and related monthly reports.

# No. 797. GAS UTILITY AND PIPELINE INDUSTRY—BALANCE SHEET AND INCOME ACCOUNT: 1940 TO 1969

[In millions of dollars. Excludes Hawaii through 1955 and Alaska through 1960. Represents privately owned companies. Excludes operations of companies distributing gas in bottles or in tanks]

ITEM	1940	1950	1955	1960	1965	1967	1968	1969
<b>COMPOSITE BALANCE SHEET</b>								
<b>Assets and other debits</b> .....	4,980	9,010	15,435	24,570	32,845	37,620	40,245	42,952
Utility plant and adjustments.....	4,330	7,620	13,305	20,835	28,205	32,030	34,400	36,593
Investment and fund accounts.....	200	360	525	1,380	1,885	2,385	2,455	2,079
Current and accrued assets.....	360	970	1,465	2,185	2,545	2,965	3,120	3,328
Deferred debits <sup>1</sup> .....	90	60	140	170	210	240	270	352
<b>Liabilities and other credits</b> .....	4,980	9,010	15,435	24,570	32,845	37,620	40,245	42,952
Capital stock.....	1,740	2,405	3,905	5,785	7,115	7,740	7,905	7,862
Long-term debt.....	1,575	3,145	5,900	9,130	11,515	12,770	13,610	14,423
Current and accrued liabilities.....	245	785	1,390	2,420	3,035	3,890	4,325	4,902
Reserve for depreciation, retirements, depletion, etc.....	870	1,740	2,775	4,570	7,205	8,535	9,310	10,010
Reserve for deferred income taxes.....	—	—	(5)	350	960	700	725	804
Capital surplus.....	(NA)	135	200	145	175	145	210	239
Retained income.....	(NA)	720	1,040	1,880	2,715	3,295	3,895	3,562
Other liabilities and credits.....	550	130	225	290	425	545	565	622
<b>COMPOSITE INCOME ACCOUNT</b>								
Operating revenues.....	1,054	2,553	5,053	8,696	11,525	12,850	13,770	14,896
Net operating revenues.....	215	371	665	1,109	1,462	1,654	1,702	1,958
Utility operating income.....	214	372	667	1,112	1,469	1,662	1,710	1,968
Gross income.....	223	405	715	1,222	1,626	1,925	2,000	2,264
Net income.....	145	317	509	830	1,107	1,300	1,312	1,450

— Represents zero. NA Not available. <sup>1</sup> Less than \$500,000

<sup>1</sup> Includes capital stock discount and expense are deducted from the appropriate capital account

porting units. <sup>2</sup> Included in "Other liabilities and credits."

ming 1960, reacquired securities to total because of error in re-

Source: American Gas Association, Inc., Arlington, Va.; yearbook, *Gas Facts*. (Copyright.)

## No. 798. GAS UTILITY INDUSTRY, SUMMARY, 1950 TO 1970 AND PROJECTIONS, 1975

ITEM	1950	1955	1960	1965	1967	1968	1969	1970 (prel.)	1975
<b>Customers<sup>1</sup>.....1,000</b>	24,001	23,479	33,054	37,338	39,077	39,930	40,852	41,775	46,512
Residential.....	22,146	26,283	30,418	34,341	35,915	36,681	37,636	38,361	42,649
Commercial.....	1,739	2,048	2,468	2,790	2,934	3,004	3,074	3,181	3,675
Industrial.....	99	121	141	180	181	188	193	199	230
Other.....	17	28	37	41	47	47	49	53	58
<b>Sales<sup>2</sup>.....mil. therms<sup>3</sup></b>	42,090	66,536	92,876	119,803	134,883	144,724	153,910	164,682	211,643
Residential.....	13,830	22,387	31,881	39,990	43,653	45,527	48,200	49,044	60,223
Commercial.....	4,104	6,029	9,198	13,448	15,770	17,049	18,780	20,242	29,585
Industrial.....	22,887	35,351	47,094	61,465	70,143	75,951	81,857	89,233	113,916
Other.....	1,261	2,819	4,704	4,900	5,311	6,197	6,878	6,104	7,919
<b>Revenues<sup>2</sup>.....mil. dol.</b>	1,948	3,450	5,617	7,407	8,261	8,781	9,476	10,375	(NA)
Residential.....	1,177	2,007	3,177	4,030	4,383	4,567	4,888	5,216	(NA)
Commercial.....	266	424	723	1,054	1,224	1,315	1,455	1,618	(NA)
Industrial.....	480	938	1,563	2,148	2,401	2,675	2,919	3,294	(NA)
Other.....	26	81	153	176	193	223	219	249	(NA)
<b>Millions of therms<sup>3</sup>.....</b>	307,470	496,740	630,950	767,520	828,270	861,640	891,624	(NA)	1,109,000
		45,680	55,850	61,760	63,710	64,440	64,514	(NA)	80,000
		145,970	183,600	211,240	225,360	234,460	248,071	(NA)	291,000
		305,090	391,440	494,520	530,200	562,450	578,639	(NA)	738,000
<b>Construction expenditures, total.....</b>	1,198	1,345	1,845	1,935	2,252	2,972	2,687	2,665	3,194
Transmission.....	716	593	848	770	1,096	1,577	1,511	1,224	1,645
Distribution.....	299	500	696	824	848	913	863	853	1,026
Production and storage.....	144	158	216	225	277	347	211	471	335
General.....	39	64	85	116	121	135	101	117	188

NA Not available. <sup>1</sup> Yearly averages. <sup>2</sup> Excludes sales for resale.

<sup>3</sup> A therm is equivalent to 100,000 British thermal units. (A B.t.u. is the quantity of heat required to raise the temperature of 1 pound of water 1° F. at or near its point of maximum density.)

Source: American Gas Association, Inc., Arlington, Va.; yearbook, *Gas Facts*. (Copyright.)

## No. 799. GAS UTILITY INDUSTRY—CUSTOMERS, SALES, AND REVENUES, BY TYPE OF GAS, CLASS OF SERVICE, AND STATES: 1969

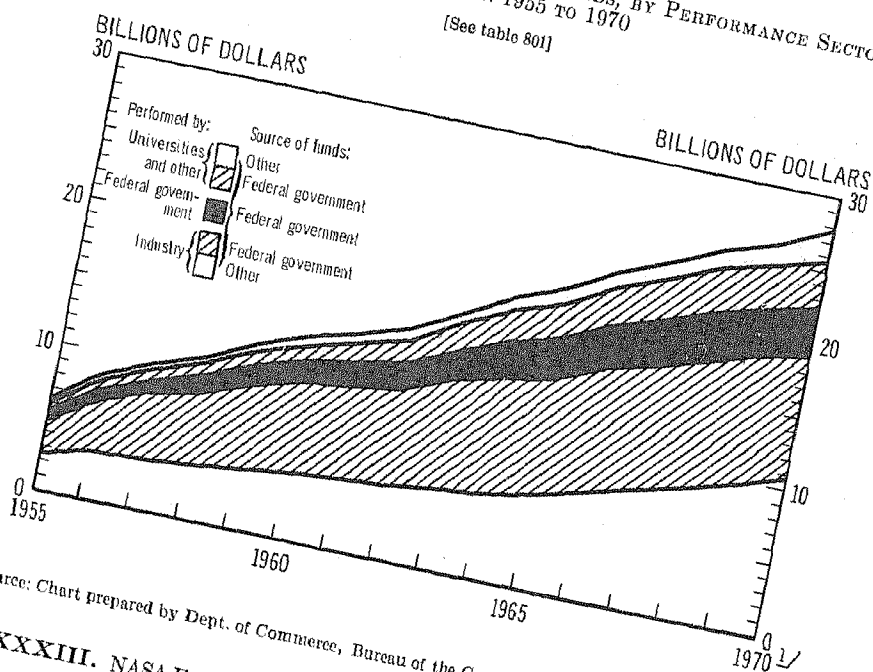
[See headnote, table 798]

TYPE OF GAS AND STATE	CUSTOMERS <sup>1</sup> (1,000)				SALES <sup>2</sup> (mil. therms <sup>3</sup> )				REVENUES <sup>2</sup> (mil. dol.)			
	Total <sup>4</sup>	Residential	Commercial	Industrial	Total <sup>4</sup>	Residential	Commercial	Industrial	Total <sup>4</sup>	Residential	Commercial	Industrial
<b>U.S.</b> .....	40,852	37,536	3,074	193	153,910	48,200	18,780	81,357	9,476	4,883	1,455	2,919
Natural.....	40,247	36,970	3,038	7	152,374	47,372	18,558	80,903	9,342	4,801	1,436	2,889
Manufactured.....	78	69	7	1	76	41	15	16	13	7	3	3
Mixed.....	500	470	27	1	1,447	778	203	436	117	72	16	26
L.P.....	29	28	2	(Z)	15	10	4	1	4	3	1	(Z)
<b>N.E.</b> .....	1,675	1,560	103	12	2,219	1,270	407	500	341	231	61	45
Maine.....	23	22	1	(Z)	18	10	4	5	4	3	1	1
N.H.....	43	40	3	(Z)	61	35	11	10	10	6	2	1
Vt.....	14	14	1	(Z)	19	8	3	8	2	(Z)	(Z)	(Z)
Mass.....	1,044	975	62	7	1,304	800	257	215	208	147	38	20
R.I.....	159	149	9	2	234	118	37	77	31	20	5	5
Conn.....	390	360	27	3	583	299	96	186	86	53	15	17
<b>M.A.</b> .....	8,123	7,522	559	30	15,896	7,782	2,300	5,489	1,631	1,022	262	319
N.Y.....	4,127	3,841	261	15	5,810	3,389	928	1,279	682	458	116	88
N.J.....	1,741	1,568	167	6	2,722	1,367	494	854	342	221	67	54
Pa.....	2,255	2,113	131	9	7,365	3,025	879	3,356	607	343	79	177
<b>E.N.C.</b> .....	9,345	8,609	684	43	37,091	15,136	5,736	15,508	2,637	1,427	436	741
Ohio.....	2,593	2,396	184	6	10,992	4,821	1,653	4,181	761	405	121	216
Ind.....	1,060	966	96	4	4,840	1,524	640	2,664	306	142	51	112
Ill.....	2,915	2,704	194	17	10,361	4,331	1,741	4,197	734	428	123	181
Mich.....	1,974	1,810	154	10	7,776	3,389	1,298	3,018	591	325	104	158
Wis.....	797	734	57	7	3,123	1,071	403	1,450	244	124	37	76
<b>W.N.C.</b> .....	3,422	3,093	303	25	16,674	5,161	2,372	8,678	898	449	155	279
Minn.....	624	569	50	5	3,040	967	418	1,618	201	103	33	63
Iowa.....	626	559	65	2	2,836	947	534	1,249	170	88	35	43
Mo.....	1,047	965	78	4	4,076	1,574	633	1,775	236	134	42	67
N. Dak.....	53	46	6	(Z)	178	78	72	28	13	7	5	1
S. Dak.....	81	71	10	(Z)	285	109	87	85	20	11	6	3
Nebr.....	359	311	41	8	1,030	528	200	996	97	44	18	31
Kans.....	634	574	54	5	4,328	968	339	2,026	162	62	17	80
<b>S.A.</b> .....	3,437	3,138	273	17	11,914	3,417	1,503	6,754	852	415	137	286
Del.....	81	75	5	(Z)	230	77	27	118	21	12	3	6
Md.....	701	651	44	4	1,848	707	160	460	151	99	20	31
D.C.....	164	144	17	1	266	148	92	9	34	21	10	1
Va.....	484	441	40	2	1,203	479	206	463	115	67	22	23
W. Va.....	377	344	30	1	1,614	584	192	797	101	40	13	36
N.C.....	268	231	33	3	1,292	262	158	844	93	33	17	41
S.C.....	216	194	21	1	1,042	182	111	746	67	24	10	38
Ga.....	780	719	55	5	2,982	859	353	1,752	171	85	24	61
Fla.....	368	338	28	1	1,938	119	206	1,566	99	25	18	55
<b>E.S.C.</b> .....	1,933	1,747	172	7	9,795	2,205	1,096	6,265	479	195	71	202
Ky.....	599	544	52	1	1,979	871	318	705	123	69	21	20
Tenn.....	416	393	47	3	2,399	453	353	1,561	121	40	25	54
Ala.....	576	534	39	1	2,904	570	271	2,058	142	60	17	65
Miss.....	342	306	33	2	2,513	311	154	1,942	93	27	9	54
<b>W.S.C.</b> .....	4,712	4,271	399	37	29,136	4,391	1,925	22,046	981	356	99	504
Ark.....	409	362	45	3	3,046	474	256	2,264	111	35	14	61
La.....	878	812	62	3	7,159	755	256	6,001	200	56	12	137
Okl.....	690	621	64	5	2,700	778	371	1,300	122	62	19	34
Tex.....	2,735	2,476	228	26	16,231	2,385	1,013	12,482	539	204	53	272
<b>Mt.</b> .....	1,809	1,616	181	8	8,726	2,275	1,194	4,913	418	184	72	150
Mont.....	148	131	16	1	741	237	155	322	40	19	9	11
Idaho.....	73	63	10	(Z)	414	73	55	272	26	9	5	11
Wyo.....	80	69	10	(Z)	590	121	78	381	21	8	4	9
Colo.....	553	489	64	1	2,419	769	507	1,097	110	53	28	23
N. Mex.....	225	200	20	3	1,281	249	102	790	54	21	6	22
Ariz.....	427	387	37	3	1,628	303	191	1,032	85	33	12	37
Utah.....	237	216	21	1	1,181	451	62	668	54	32	4	18
Nev.....	66	63	3	(Z)	473	78	43	352	28	9	4	14
<b>Pac.</b> .....	6,398	5,983	400	15	22,466	6,566	2,249	11,268	1,237	603	150	393
Wash.....	275	241	33	1	1,507	319	189	999	98	40	20	38
Oreg.....	195	172	22	1	845	188	105	552	62	27	13	22
Calif.....	5,878	5,525	341	12	19,961	6,026	1,934	9,583	1,061	530	125	327
Alaska <sup>5</sup> .....	14	11	2	(Z)	128	24	17	61	10	3	2	3
Hawaii.....	36	33	3	1	26	9	2	14	7	3	1	3

Z Customers, less than 500; revenues, less than \$500,000.

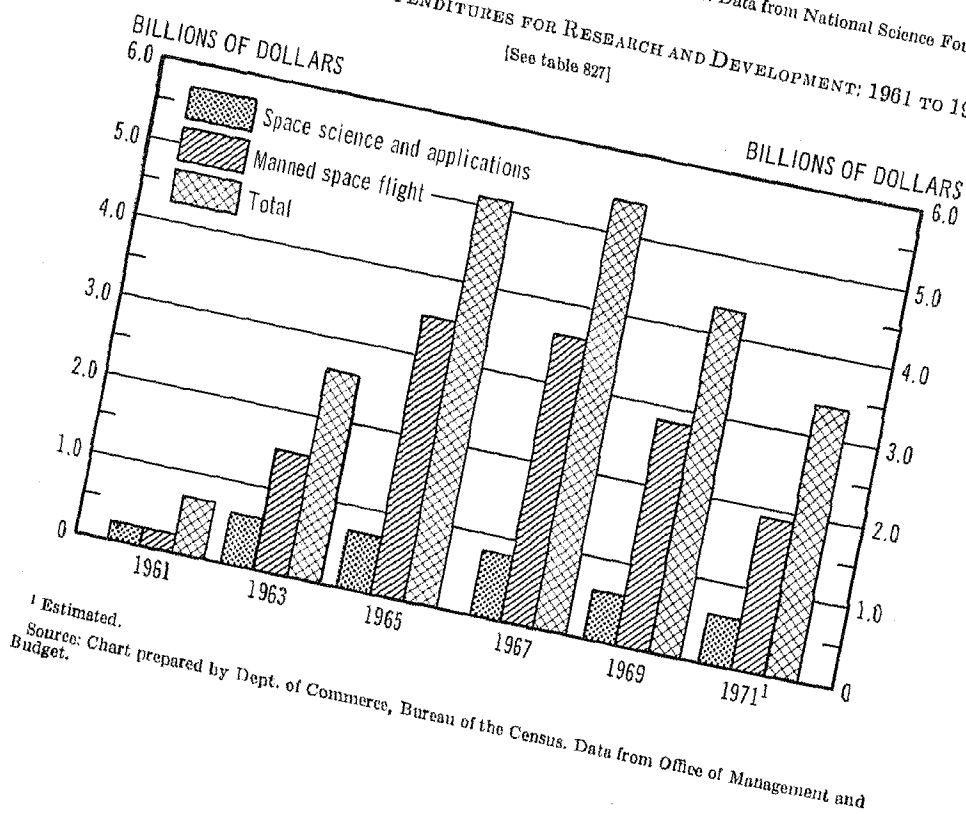
<sup>1</sup>Averages for the year. <sup>2</sup>Excludes sales for resale. <sup>3</sup>For definition, see footnote 3, table 798.<sup>4</sup>Includes "Other" service, not shown separately. <sup>5</sup>Natural gas only.Source: American Gas Association, Inc., Arlington, Va.; yearbook, *Gas Facts*. (Copyright.)

FIG. XXXII. RESEARCH AND DEVELOPMENT FUNDS, BY PERFORMANCE SECTOR AND BY SOURCE: 1955 TO 1970  
[See table 801]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from National Science Foundation.

FIG. XXXIII. NASA EXPENDITURES FOR RESEARCH AND DEVELOPMENT: 1961 TO 1971  
[See table 827]



## Section 20

### Science

This section presents statistics relating to various aspects of scientific and technical activity. Major topics are research and development, training and employment of scientists and engineers, atomic energy, space vehicles, and patents and trademarks. Principal sources of these data are the National Science Foundation, the Atomic Energy Commission, and the National Aeronautics and Space Administration.

The National Science Foundation gathers data chiefly through recurring statistical surveys and the National Register of Scientific and Technical Personnel (see below). Some current Foundation publications containing data on funds for research and development and on scientific and engineering personnel include the occasional bulletin series, *Reviews of Data on Science Resources*; annual and biannual reports such as *Federal Funds for Research, Development, and Other Scientific Activities*; *Research and Development in Industry*; *National Patterns of R&D Resources*; *Resources for Scientific Activities at Universities and Colleges*; *American Science Manpower*; *Scientists, Engineers and Physicians From Abroad*; *Scientific, Technical and Health Personnel in the Federal Government*; occasional reports relating to nonprofit institutions, State and local governments and graduate student support; special reports such as *Federal Support to Universities, Colleges and Selected Nonprofit Institutions*; and policy reports relating to national allocation of manpower and funds to science and technology. Statistical surveys in these areas pose particularly difficult problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. Detailed discussions of the scope and limitations of the data appear in the source publications.

Neither the National Aeronautics and Space Administration nor the Atomic Energy Commission publish any statistical reports as such. NASA's *Semiannual Report* contains current data on finances and its biweekly *Satellite Situation Report* presents information on artificial satellites, including both objects in orbit and decayed objects. The Atomic Energy Commission's *Annual Report to Congress* contains data on atomic energy, equipment, finances, and licenses.

Other sources of statistics on scientific and technical activities include *The Budget of the United States Government*, which contains summary financial data on all Federal research and development programs; the report series *Resources for Medical Research*, issued by the Public Health Service of the Department of Health, Education, and Welfare, and designed to present timely information on funds, manpower, facilities, and institutions devoted to medical and health-related research; and the *Annual Report of the Commissioner of Patents*, issued by the Department of Commerce's Patent Office and presenting data on patent applications and issuances and on trademark registrations and renewals.

**Research and development.**—The National Science Foundation defines research as a "systematic and intensive study directed toward a fuller knowledge of the subject studied" and development as "the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes." The data on funds are presented within the framework of a national economic structure composed of four sectors: (1) The government sector, made up primarily of Federal executive agencies; (2) the industry sector, consisting of manufacturing and nonmanufacturing firms and the Federally Funded Research and Development Centers they administer; (3) the colleges and universities sector, composed of colleges, universities,



and their affiliated institutions, agricultural experiment stations and associated schools of agriculture, and Federally Funded Research and Development Centers administered by educational institutions; and (4) the *other nonprofit institutions sector*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and Federally Funded Research and Development Centers administered by nonprofit organizations. The federally funded centers are research and development organizations which are exclusively or substantially financed by the Federal government and which, in most instances, were originally established to meet a particular research and development need of the Government. They are administered on a contractual basis, by companies, educational institutions, or other nonprofit organizations. The research and development funds reported consist of current operating costs, including those for planning and administration, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific manpower.

**Scientists, engineers, and technicians.**—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. They are generally classified according to the fields of their employment and not according to the discipline in which they received their major training. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training. Craftsmen and skilled workers are excluded. The National Register of Scientific and Technical Personnel is a comprehensive program, conducted by the National Science Foundation, for the voluntary registration of scientists. Because it is voluntary, the Register does not include all scientists and engineers in the United States but it does provide valuable statistical information on demographic and other characteristics not available elsewhere.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

#### NO. 800. RESEARCH AND DEVELOPMENT—DEFENSE, SPACE, AND OTHER OUTLAYS: 1955 TO 1971

[Includes basic research, applied research, and development. Defense related outlays comprise all research and development spending by Dept. of Defense including space activities, and a portion of Atomic Energy Commission funds. Space related outlays are those of the National Aeronautics and Space Administration; they exclude space activities of other Federal agencies, estimated at less than 5 percent of all space research and development spending]

YEAR	Total research and development (mil. dol.)	AS PERCENT OF TOTAL RESEARCH AND DEVELOPMENT					
		Defense-space related			Other outlays		
		Total	Defense	Space	Total	Non-federal	Federal
1955	6,279	48.4	47.4	1.0	51.6	44.1	7.5
1956	8,488	49.5	48.6	0.9	50.5	42.7	7.7
1957	9,912	53.2	52.2	1.0	46.8	38.3	8.5
1958	10,870	53.0	52.0	1.0	47.0	37.5	9.5
1959	12,540	55.8	53.3	2.5	44.2	35.7	8.5
1960	13,730	54.7	51.6	3.1	45.3	36.3	9.0
1961	14,652	54.7	49.2	5.5	45.3	36.3	9.0
1962	15,665	53.4	44.6	8.8	46.6	36.6	10.0
1963	17,371	54.9	40.2	14.7	45.1	35.4	9.7
1964	19,214	55.7	36.0	19.7	44.3	34.0	9.7
1965	20,439	53.6	32.1	21.5	46.4	36.1	10.1
1966	22,266	51.7	30.9	20.8	48.3	37.1	11.2
1967	23,642	49.7	31.7	18.0	50.3	38.9	11.4
1968	25,083	47.8	31.2	16.6	52.2	40.3	11.9
1969 (prel.)	26,175	45.2	30.7	14.5	54.8	42.8	12.0
1970 est.	26,850	42.1	28.7	13.4	57.9	45.4	12.5
1971 est.	27,850	39.0	27.9	11.1	61.0	47.1	13.9

Source: National Science Foundation; *National Patterns of R & D Resources—Funds and Manpower in the United States, 1953-71* (NSF 70-46).

[In millions of dollars. Data primarily on calendar year basis—data for calendar year 1955 for industry and other nonprofit institutions combined with Federal and university data for fiscal 1955 (1954-55); same pattern followed for 1956 (1955-56). Excludes funds for physical, biological, and chemical sciences, and to natural sciences including engineering and to social sciences. Excludes capital expenditures for research and development. Excludes Research and Development Centers administered by industry. Totals of respective sectors.]

<sup>1</sup> Comprises basic research, applied research, and development.  
<sup>2</sup> Includes State and local government funds received by these institutions and used for research and development.  
<sup>3</sup> Comprises estimates for independent nonprofit hospitals and voluntary health agencies.

Source: National Science Foundation; *National Patterns of R & D Resources—Funds and Manpower in the United States, 1953-71* (NSF 70-48).

# NO. 802. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT: 1960 TO 1971

[In millions of dollars. For years ending June 30. Excludes research and development plant. For any given year, obligations differ from expenditures (see table 803) because not all funds are expended during year obligated]

ITEM	1960	1964	1965	1966	1967	1968	1969	1970	1971 est.
<b>Total R and D</b> .....	<b>7,552</b>	<b>14,225</b>	<b>14,614</b>	<b>15,320</b>	<b>16,529</b>	<b>15,921</b>	<b>15,637</b>	<b>15,331</b>	<b>15,555</b>
Basic research.....	610	1,567	1,690	1,844	2,015	2,104	2,094	5,564	5,959
Applied research.....	1,331	2,898	3,164	3,427	3,288	3,261	3,145		
Development.....	5,611	9,761	9,760	10,050	11,256	10,557	10,398	9,767	9,595
<b>Total research</b> .....	<b>1,941</b>	<b>4,464</b>	<b>4,854</b>	<b>5,271</b>	<b>5,273</b>	<b>5,365</b>	<b>5,239</b>	<b>5,564</b>	<b>5,959</b>
Life sciences.....	511	1,045	1,187	1,301	1,451	1,537	1,501	(NA)	(NA)
Psychological sciences.....	38	85	1,103	100	108	98	103	(NA)	(NA)
Physical sciences.....	608	1,602	1,705	1,830	1,074	1,131	1,169	(NA)	(NA)
Environmental sciences.....	(1)	(1)	(1)	(1)	670	663	551	(NA)	(NA)
Mathematical sciences.....	25	93	105	123	130	119	116	(NA)	(NA)
Engineering sciences.....	690	1,450	1,576	1,677	1,555	1,669	1,499	(NA)	(NA)
Social sciences.....	35	102	127	166	189	195	220	(NA)	(NA)
Other sciences.....	33	77	70	74	95	61	80	(NA)	(NA)

NA Not available. <sup>1</sup> Included in "physical sciences."

# NO. 803. FEDERAL EXPENDITURES FOR RESEARCH AND DEVELOPMENT, AND RESEARCH AND DEVELOPMENT PLANT, BY AGENCY: 1960 TO 1971

[In millions of dollars. For years ending June 30. Includes social science research. Expenditure data in this table differ from those in table 801 because of the difference between Federal fiscal year reports and predominantly calendar year reporting by other sectors. See also *Historical Statistics, Colonial Times to 1967*, series W 79-64]

AGENCY	RESEARCH AND DEVELOPMENT					RESEARCH AND DEVELOPMENT PLANT				
	1960	1965	1969	1970	1971 est.	1960	1965	1969	1970	1971 est.
<b>Total</b> .....	<b>7,283</b>	<b>13,804</b>	<b>15,691</b>	<b>15,098</b>	<b>15,332</b>	<b>461</b>	<b>1,084</b>	<b>657</b>	<b>534</b>	<b>628</b>
<b>Departments:</b>										
Agriculture.....	121	200	270	288	309	11	6	14	13	12
Commerce.....	30	58	75	118	133	3	28	3	2	9
Defense.....	5,553	6,628	7,660	7,424	7,543	101	100	208	141	163
Army.....	1,066	1,400	1,577	1,744	1,711	43	20	32	18	46
Navy.....	1,277	1,397	2,080	2,151	2,241	24	22	20	22	30
Air Force.....	2,958	3,360	3,514	3,089	3,123	20	45	113	62	50
Other.....	252	462	489	441	468	15	12	34	40	37
Health, Educ., and Welfare.....	292	681	1,187	1,235	1,350	32	57	33	5	16
National Institutes of Health.....	256	555	852	879	972	31	40	32	3	5
Interior.....	63	109	196	153	188	2	10	8	6	7
Atomic Energy Commission.....	762	1,241	1,406	1,346	1,307	224	279	248	270	312
National Aero. and Space Admin.....	330	4,555	4,182	3,699	3,319	7	538	70	54	50
National Science Foundation.....	57	150	280	293	330	7	57	62	31	29
All other.....	75	182	435	542	844	10	9	11	12	30

<sup>1</sup> Data represent accrued costs rather than expenditures.

Source of tables 802 and 803: National Science Foundation; annual report, *Federal Funds for Research, Development, and Other Scientific Activities*, Vol. XIX, NSF 70-88, and Office of Management and Budget, *The Budget of the United States Government*, 1972, Special Analysis R, *Federal Research and Development Programs*.

# NO. 804. RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS—MAN-YEARS AND AVERAGE COST, BY INDUSTRY AND SOURCE OF SUPPORT: 1969

INDUSTRY	Total	Company	FEDERAL			
			Total	Dept. of Defense	Nat'l Aero. and Space Admin.	All other agencies
<b>Man-years of R and D scientists and engineers</b> .....	<b>383,200</b>	<b>230,100</b>	<b>153,100</b>	<b>103,800</b>	<b>133,200</b>	<b>116,200</b>
Chemicals and allied products.....	42,000	38,500	3,500	1,100	(NA)	2,300
.....	43,400	34,200	9,100	5,800	2,700	700
.....	100,800	48,900	51,900	35,100	9,100	7,600
.....	23,900	18,500	5,400	4,100	(NA)	(NA)
Aircraft and missiles.....	93,900	24,800	69,100	48,600	17,500	3,100
Other industries.....	79,200	65,200	14,100	9,100	2,600	2,400
<b>Cost (per scientist or engineer)</b> .....	<b>\$48,200</b>	<b>\$42,800</b>	<b>\$56,300</b>	<b>\$55,900</b>	<b>\$57,400</b>	<b>\$56,700</b>
Chemicals and allied products.....	41,700	40,600	54,200	44,400	(NA)	59,900
Machinery.....	40,300	39,600	42,600	45,000	39,900	33,700
Electrical equipment and communication.....	42,600	40,200	44,900	44,400	36,400	57,500
Motor veh. and other transportation equip.....	68,900	67,200	74,600	84,300	(NA)	(NA)
Aircraft and missiles.....	61,800	51,400	65,500	63,100	73,700	57,000
Other industries.....	40,800	37,700	55,200	59,300	48,100	55,400

NA Not available. <sup>1</sup> Includes data for industries not available separately.

Source: National Science Foundation; annual report, *Research and Development in Industry*.

**No. 805. FUNDS FOR PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT, BY CHARACTER OF WORK, 1960 TO 1969, AND BY INDUSTRY, 1969**

[In millions of dollars. Includes performance of Federally Funded Research and Development Centers administered by industrial firms, classified by industry of the administering company. Excludes performance by certain industry-oriented organizations, such as trade associations, that account annually for less than 1 percent of the total. Excludes funds for research and development capital and the social sciences]

YEAR AND INDUSTRY	Total	RESEARCH			Development
		Total	Basic	Applied	
1960.....	10,509	2,405	376	2,029	8,104
1965.....	14,185	3,250	592	2,658	10,934
1966.....	15,548	3,467	624	2,843	12,081
1967.....	16,415	3,544	629	2,915	12,872
1968.....	17,469	3,766	642	3,124	13,703
1969.....	18,474	3,961	646	3,315	14,513
Chemicals and allied products.....	1,752	889	223	666	863
Petroleum refining and extraction <sup>1</sup> .....	572	251	39	212	321
Electrical equipment and communication <sup>2</sup> .....	4,294	804	137	667	3,400
Aircraft and missiles.....	5,801	652	63	589	5,149
All other.....	6,055	1,365	184	1,181	4,690

<sup>1</sup> Excludes geological and geophysical exploration activities of petroleum companies.

<sup>2</sup> These 2 industries have been combined because of the similarity of their research and development activities.

Source: National Science Foundation; annual report, *Research and Development in Industry*.

**No. 806. FUNDS FOR PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT, BY INDUSTRY AND SOURCE OF FUNDS: 1963 TO 1969**

[In millions of dollars. Covers basic research, applied research, and development. See headnote, table 805]

SOURCE OF FUNDS AND YEAR	Total	Food and kindred products	Textiles and apparel	Lumber, wood products, and furniture	Paper and allied products	Chemicals, and allied products	Petroleum refining and extraction	Rubber products	Stone, clay, and glass products
<b>Total funds:</b>									
1963.....	12,630	130	30	11	69	1,239	317	156	100
1965.....	14,185	151	35	12	77	1,390	434	166	117
1966.....	17,435	173	50	17	91	1,640	538	229	167
1969.....	18,474	185	60	24	113	1,752	572	240	191
<b>Federal funds:</b>									
1963.....	7,270	(NA)	2	(NA)	-	234	21	46	3
1965.....	7,740	1	(NA)	(NA)	-	191	60	25	4
1966.....	8,559	1	(NA)	-	-	201	75	41	5
1969.....	8,619	2	(NA)	-	(NA)	192	47	43	4
<b>Private industry funds:</b>									
1963.....	5,360	(NA)	28	(NA)	69	1,004	296	111	97
1965.....	6,445	150	(NA)	(NA)	77	1,198	364	141	113
1966.....	8,876	172	(NA)	17	91	1,440	463	183	162
1969.....	9,856	183	(NA)	24	(NA)	1,560	524	196	187
		Primary metals	Fabricated metals products	Machinery	Electrical equipment and communication	Motor vehicles and other transportation equipment	Aircraft and missiles	Professional and scientific instruments	Other industries <sup>1</sup>
<b>Total funds:</b>									
1963.....	183	153	958	2,866	1,090	4,712	284	330	
1965.....	213	145	1,128	3,168	1,223	5,098	383	443	
1966.....	253	173	1,619	4,038	1,530	5,651	590	666	
1969.....	267	183	1,746	4,294	1,647	5,801	664	736	
<b>Federal funds:</b>									
1963.....	10	24	250	1,849	291	4,261	81	193	
1965.....	8	15	267	1,963	325	4,476	126	267	
1966.....	9	11	421	2,272	414	4,503	214	387	
1969.....	10	11	390	2,329	406	4,524	215	(NA)	
<b>Private industry funds:</b>									
1963.....	174	129	709	1,017	799	452	202	137	
1965.....	205	129	860	1,206	898	622	257	176	
1966.....	244	162	1,198	1,766	1,117	1,148	377	279	
1969.....	257	172	1,356	1,965	1,241	1,277	448	(NA)	

- Represents zero. NA Not available.

<sup>1</sup> Includes data for all other manufacturing and nonmanufacturing industries not specifically listed. Excludes industry data specified as not available.

Source: National Science Foundation; annual report, *Research and Development in Industry*.

## No. 807. INDUSTRIAL RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION: 1969

[Amounts in millions of dollars. See headnote, table 805. For States in each division, see fig. I, p. xii]

GEOGRAPHIC DIVISION	TOTAL FUNDS		FEDERAL FUNDS		COMPANY FUNDS	
	Amount	Percent	Amount	Percent	Amount	Percent
<b>United States</b> .....	<b>18,474</b>	<b>100</b>	<b>8,619</b>	<b>100</b>	<b>9,856</b>	<b>100</b>
New England.....	1,852	10	982	11	870	9
Middle Atlantic.....	4,313	23	1,677	18	2,736	28
East North Central.....	3,555	19	497	6	3,058	31
West North Central.....	611	3	219	3	392	4
South Atlantic.....	1,417	8	800	9	617	6
East South Central.....	383	2	235	3	148	2
West South Central.....	681	4	301	3	380	4
Mountain.....	684	4	446	5	239	2
Pacific.....	4,978	27	3,562	41	1,415	14

Source: National Science Foundation; annual report, *Research and Development in Industry*.

## No. 808. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1965 TO 1970

[Money figures in millions of dollars. For years ending June 30. Minus sign (-) denotes decrease]

ITEM	1965	1966	1967	1968	1969	1970 (prel.)
<b>Federal obligations</b> .....	<b>2,305.5</b>	<b>3,010.0</b>	<b>3,311.1</b>	<b>3,379.7</b>	<b>3,453.3</b>	<b>3,226.7</b>
Percent annual increase.....	41.9	30.6	10.0	2.1	2.2	-8.6
<b>Academic science obligations</b> .....	<b>1,816.2</b>	<b>2,163.5</b>	<b>2,323.8</b>	<b>2,349.8</b>	<b>2,361.4</b>	<b>2,167.9</b>
Percent of Federal.....	78.8	71.9	70.2	69.5	68.4	67.2
Research and development.....	1,065.0	1,252.1	1,324.1	1,423.0	1,495.3	1,484.1
Research and development plant.....	125.2	114.8	116.7	104.1	67.4	27.6
Other activities.....	566.0	796.6	883.0	822.7	808.8	676.3
<b>Non-science activities</b> .....	<b>489.3</b>	<b>846.4</b>	<b>987.3</b>	<b>1,029.9</b>	<b>1,091.9</b>	<b>1,058.8</b>
Percent of Federal.....	21.2	28.1	29.8	30.5	31.6	32.8

Source: National Science Foundation; annual report, *Federal Support to Universities and Colleges*.

## No. 809. EXPENDITURES FOR SCIENTIFIC PURPOSES—UNIVERSITIES AND COLLEGES AND UNIVERSITY-ADMINISTERED FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS: 1964, 1966, AND 1968

[In millions of dollars. "N.e.c." means not elsewhere classified]

TYPE OF EXPENDITURE	UNIVERSITIES AND COLLEGES			FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS		
	1964	1966	1968	1964	1966	1968
<b>Total</b> .....	<b>3,959</b>	<b>5,129</b>	<b>6,957</b>	<b>776</b>	<b>777</b>	<b>855</b>
<b>Current research and development expenditures</b> .....	<b>1,155</b>	<b>1,208</b>	<b>1,269</b>	<b>629</b>	<b>630</b>	<b>719</b>
Source of funds:						
Federal.....	917	1,261	1,572	629	629	715
State.....	173	204	225	(z)	(z)	(z)
Industry.....	61	77	95	-	-	1
Institutions' own funds and other sources.....	40	42	55	-	-	(z)
Character of work:						
Basic research.....	403	501	651	(z)	(z)	2
Applied research.....						
Development.....	1,261	1,601	2,011	191	227	276
	294	400	492	202	207	231
	40	84	95	236	196	212
Field of science (excl. development expend.).....						
Engineering.....	1,554	2,001	2,503	393	434	507
Physical sciences.....	199	280	334	39	55	75
Environmental sciences.....	256	333	363	278	298	334
Mathematics.....	63	76	135	20	24	20
Life sciences.....	48	61	79	19	23	18
Psychology.....	795	981	1,169	31	27	27
Social sciences <sup>2</sup> .....	44	55	77	4	4	5
Other sciences, n.e.c.....	125	168	247	2	3	0
Current expenditures for instruction <sup>3</sup> .....	24	46	97	-	-	17
Capital expenditures for research, development, and instruction.....	1,835	2,377	3,288	-	-	-
	529	667	1,071	147	147	136

- Represents zero. Z Less than \$500,000. <sup>1</sup> Includes estimates for departmental research and for other research and development costs for which most universities and colleges do not maintain separate records. <sup>2</sup> Economics, history, linguistics, political science, sociology, and social sciences, n.e.c. <sup>3</sup> Includes research expenditures which are included with current research and development

Source: National Science Foundation. Data derived from the 1964, 1966, and 1969 Surveys of Scientific Activities of Institutions of Higher Education.

### No. 810. SCIENTISTS, ENGINEERS, AND TECHNICIANS IN PRIVATE INDUSTRY, BY FIELD OF EMPLOYMENT, 1961 TO 1969, AND BY INDUSTRY, 1969

[As of January. Excludes psychologists and social scientists. 1969 data are preliminary]

YEAR AND INDUSTRY	Total <sup>1</sup>	Engineers	Mathematicians	Chemists	Physicists	Metalurgists	Earth scientists	Life scientists	Technicians
1961.....	1,356,900	641,500	15,100	70,800	13,800	12,300	12,000	18,700	570,000
1965.....	1,664,600	748,700	25,000	81,300	14,200	10,400	13,800	20,400	646,500
1966.....	1,627,800	776,100	27,200	84,300	15,100	11,000	13,800	22,400	673,200
1967.....	1,747,800	824,000	31,300	85,200	16,200	12,000	16,400	22,400	734,700
<b>Total, 1969.....</b>	<b>1,835,000</b>	<b>849,000</b>	<b>33,000</b>	<b>90,500</b>	<b>20,600</b>	<b>15,200</b>	<b>15,900</b>	<b>23,600</b>	<b>772,500</b>
Ordnance and accessories.....	83,100	54,200	3,900	1,500	2,500	400	200	200	20,100
Chemicals and allied prod.....	148,900	44,200	1,700	41,600	2,200	800	200	11,900	45,400
Petroleum refining.....	19,600	8,800	200	3,300	100	(2)	300	(2)	6,900
Primary and fabricated metal products.....	108,400	50,800	900	3,900	500	7,800	(2)	(2)	45,100
Machinery.....	166,100	81,100	3,600	2,000	1,000	1,400	(2)	200	76,300
Communications equip.....	123,800	71,300	2,400	900	1,800	600	(2)	200	45,200
Other electrical equipment.....	143,200	75,400	1,800	1,900	1,600	800	(2)	100	61,200
Aircraft and parts.....	135,700	80,300	3,700	2,300	1,800	1,600	100	100	37,600
Motor vehicles and equip.....	49,000	20,100	600	800	200	600	(2)	(2)	16,600
Instruments and related products.....	59,100	30,000	600	3,200	1,100	300	(2)	500	23,300
Other manufacturing.....	120,700	52,800	1,800	15,200	500	200	300	3,600	44,200
Mining.....	47,100	18,700	400	900	200	200	12,800	(2)	13,700
Contract construction.....	79,200	46,800	500	100	(2)	(2)	300	-	31,500
Transp., public utilities, and other nonmanufacturing.....	213,000	78,700	0,700	3,600	400	300	500	2,300	116,900
Services.....	338,100	118,300	7,200	0,300	6,700	700	1,200	4,500	188,500

- Represents zero. Z Less than 50. <sup>1</sup> Includes physical scientists not shown separately.

Source: Dept. of Labor, Bureau of Labor Statistics; *Scientific and Technical Personnel in Industry*, Bulletin Nos. 1609 and 1674, and unpublished data.

### No. 811. PROFESSIONAL SCIENTIFIC AND TECHNICAL PERSONNEL IN THE FEDERAL GOVERNMENT, BY OCCUPATIONAL GROUP: 1960 TO 1969

[1964 data as of December; other data as of October]

OCCUPATIONAL GROUP	1960	1964	1966	1967	1968		1969	
					Total	Percent female	Total	Percent female
<b>Total.....</b>	<b>153,383</b>	<b>186,823</b>	<b>195,397</b>	<b>204,198</b>	<b>206,982</b>	<b>16.0</b>	<b>210,303</b>	<b>15.9</b>
Scientific personnel.....	53,264	68,324	72,471	65,010	78,054	8.3	79,390	8.1
Physical sciences.....	17,984	26,282	27,323	28,537	29,617	6.2	30,461	6.4
Mathematics and statistics <sup>1</sup> .....	4,983	6,540	7,344	8,138	8,858	19.2	8,314	17.8
Biological sciences.....	21,636	24,883	26,424	27,167	27,127	4.6	27,993	4.4
Social sciences <sup>2</sup> .....	4,672	5,818	6,328	6,864	7,116	16.3	7,138	16.4
Geography and cartography.....	2,300	2,949	3,173	3,378	3,403	9.0	3,435	9.0
Psychology.....	1,689	1,843	1,879	1,936	2,033	14.4	2,049	13.2
Engineering personnel.....	80,978	74,869	76,832	81,213	82,765	0.5	84,148	0.5
Health professional personnel.....	39,141	43,630	46,094	46,975	46,168	66.6	46,765	66.8
Health officers.....	11,138	12,340	13,272	13,802	13,583	5.0	13,682	5.1
Other.....	28,003	31,290	32,822	33,173	32,580	78.1	33,083	78.2

<sup>1</sup> Includes actuary, mathematics, statistics, operations research, and, beginning 1964, mathematical statisticians.

<sup>2</sup> Includes social science, economics, history, anthropological sciences, and, beginning 1964, urban planning.

Source: National Science Foundation. Compiled from data supplied by Civil Service Commission.

### No. 812. SCIENTIFIC AND TECHNICAL PERSONNEL IN STATE GOVERNMENT AGENCIES—TOTAL, 1964 AND 1967, AND SELECTED STATES, 1967

YEAR AND STATE	Scientists	Engineers	Health-related professionals	Social workers	Technicians	STATE	Scientists	Engineers	Health-related professionals	Social workers	Technicians
1964.....	16,686	34,537	36,153	(1)	60,232	Minnesota.....	439	635	714	312	1,025
<b>Total, 1967.....</b>	<b>20,617</b>	<b>34,192</b>	<b>40,975</b>	<b>42,801</b>	<b>61,916</b>	New York.....	1,703	2,869	4,934	2,621	2,959
California.....	2,426	5,719	3,814	2,347	6,825	North Carolina.....	684	823	787	593	1,329
Florida.....	787	2,084	1,808	2,878		Ohio.....	551	681	1,154	724	2,585
Illinois.....	955	1,604	1,811	2,212	1,317	Oregon.....	612	778	317	986	372
Maryland.....	445	259	1,079	1,071	1,276	Pennsylvania.....	868	1,403	3,335	3,676	3,281
Massachusetts.....	490	1,295	2,179	570	1,091	Texas.....	430	1,239	1,046	649	3,481
Michigan.....	713	1,182	2,885	1,396		Virginia.....	730	971	1,536	289	2,331
						Washington.....	552	866	446	1,425	1,472
						Wisconsin.....	665	682	631	647	1,269

<sup>1</sup> Comparable data not available due to change in definition.

Source: Dept. of Labor, Bureau of Labor Statistics; *Scientific and Professional Employment by State Government*.

# No. 813. SCIENTISTS, BY SCIENTIFIC FIELD, 1964 TO 1970, AND BY STATES AND OTHER AREAS, 1970

[For discussion of coverage, see text, p. 508]

YEAR AND STATE OR OTHER AREA	Total	SCIENTIFIC FIELD								
		Agricul- tural sci- ences	Biolog- ical sci- ences	Psy- chology	Atmos- pheric and earth sciences <sup>1</sup>	Mathe- matics and sta- tistics <sup>2</sup>	Physics	Chem- istry	Eco- nomics	Other social sciences
1964.....	223,854	9,528	27,135	16,804	23,417	20,254	26,698	63,053	12,143	24,824
1966.....	242,763	10,038	29,633	19,027	26,032	25,848	29,130	65,917	13,150	23,988
1968.....	207,942	12,740	46,183	23,077	29,491	34,088	32,491	93,788	11,610	14,574
Total, 1970.....	312,644	15,730	47,493	26,271	30,393	38,677	36,336	86,980	13,386	17,378
Alabama.....	2,611	294	369	180	145	382	342	700	106	93
Alaska.....	735	219	99	17	259	38	33	42	11	17
Arizona.....	2,692	262	480	213	440	310	348	363	87	189
Arkansas.....	1,097	216	241	97	95	83	53	204	55	63
California.....	35,219	1,345	5,100	3,806	3,665	5,349	5,542	7,461	1,146	1,805
Colorado.....	5,874	455	712	455	1,729	608	690	842	137	245
Connecticut.....	5,546	84	822	516	213	770	791	1,707	231	352
Delaware.....	2,928	28	198	67	40	118	148	2,252	33	44
District of Columbia.....	8,857	322	985	594	1,000	1,272	1,135	1,183	1,507	859
Florida.....	5,727	393	1,030	642	615	729	606	1,193	218	301
Georgia.....	3,960	495	848	336	251	476	265	855	202	232
Hawaii.....	1,289	97	255	112	228	141	91	175	54	136
Idaho.....	1,318	463	184	66	125	75	105	239	27	34
Illinois.....	16,020	353	2,642	1,489	994	1,895	1,683	5,236	751	977
Indiana.....	6,641	227	1,172	501	298	862	681	2,156	311	433
Iowa.....	3,364	199	785	318	153	408	343	700	221	237
Kansas.....	2,927	166	568	345	352	380	209	593	133	181
Kentucky.....	2,488	161	446	229	195	251	172	733	123	178
Louisiana.....	4,382	313	621	184	1,350	334	209	1,086	117	168
Maine.....	935	157	175	79	62	117	59	187	42	57
Maryland.....	10,725	240	2,464	699	901	1,754	1,712	2,217	303	435
Massachusetts.....	12,677	127	1,900	967	773	1,818	2,505	3,206	580	801
Michigan.....	10,976	517	1,680	1,068	560	1,273	990	3,533	508	847
Minnesota.....	5,516	391	1,021	562	292	736	480	1,491	237	306
Mississippi.....	1,367	234	291	80	199	126	66	250	53	68
Missouri.....	5,748	264	1,014	434	486	621	484	1,841	296	308
Montana.....	1,280	424	235	47	231	91	44	134	37	37
Nebraska.....	1,780	185	378	150	239	218	113	289	96	112
Nevada.....	741	130	86	41	192	47	77	109	27	32
New Hampshire.....	1,057	103	217	76	92	117	127	197	54	74
New Jersey.....	14,337	132	1,332	908	346	1,631	1,674	7,602	259	363
New Mexico.....	2,718	267	259	113	383	365	781	430	50	70
New York.....	32,391	485	4,842	3,630	1,443	4,672	4,201	9,424	1,662	2,032
North Carolina.....	4,912	359	1,011	355	279	584	360	1,396	214	354
North Dakota.....	746	114	176	54	103	60	31	152	33	23
Ohio.....	13,404	248	1,656	1,088	680	1,351	1,499	5,734	494	654
Oklahoma.....	3,647	163	420	185	1,124	348	174	1,081	102	109
Oregon.....	3,674	1,045	705	270	285	300	223	508	144	185
Pennsylvania.....	17,094	394	2,445	1,605	864	1,959	1,938	6,405	615	869
Rhode Island.....	1,365	35	221	109	90	159	220	372	47	112
South Carolina.....	1,867	236	268	125	92	179	139	673	87	68
South Dakota.....	753	167	167	62	83	76	29	90	36	43
Tennessee.....	4,310	221	696	309	241	412	562	1,503	164	202
Texas.....	15,671	573	1,817	901	4,375	1,696	1,445	3,843	382	639
Utah.....	2,271	263	423	156	387	227	195	446	65	109
Vermont.....	676	70	156	61	44	69	82	119	33	42
Virginia.....	6,493	337	780	497	565	1,164	919	1,635	354	342
Washington.....	5,728	741	974	460	561	664	640	1,187	189	312
West Virginia.....	1,823	163	213	106	124	96	76	896	74	75
Wisconsin.....	6,005	403	1,127	541	371	695	570	1,625	301	472
Wyoming.....	888	204	102	43	286	46	47	115	26	19
Other areas.....	616	33	118	36	102	48	41	163	24	51
Foreign.....	4,778	212	567	287	1,391	468	387	507	328	631

<sup>1</sup> Beginning 1968, includes space and marine sciences.

<sup>2</sup> Beginning 1968, includes computer sciences.

Source: National Science Foundation; biennial report, *American Science Manpower*. Data derived from the National Register of Scientific and Technical Personnel.

## No. 814. SELECTED CHARACTERISTICS OF SCIENTISTS: 1970

[For discussion of coverage, see text, p. 508. For definition of median, see preface]

CHARACTERISTIC	Number	Percent	Median salary	CHARACTERISTIC	Number	Percent	Median salary
<b>Total</b> .....	<b>312,644</b>	<b>100.0</b>	<b>\$15,000</b>	<b>Highest degree—Continued</b>			
Sex:				Bachelor's.....	83,740	26.8	\$13,900
Men.....	283,351	90.6	15,200	Less than a bachelor's.....	575	0.2	14,000
Women.....	29,293	9.4	11,600	Not reported.....	2,261	0.7	14,200
Professional experience:				Age:			
1 year or less.....	10,794	3.4	10,100	Under 25 years.....	6,785	2.2	8,700
2-4 years.....	44,068	14.4	11,100	25-29 years.....	52,679	16.8	10,800
5-9 years.....	57,757	18.5	13,100	30-34 years.....	57,477	18.4	13,000
10-14 years.....	44,330	14.2	15,400	35-39 years.....	47,318	15.1	15,000
15-19 years.....	36,242	11.6	17,400	40-44 years.....	44,613	14.3	16,800
20 years or more.....	71,841	23.0	(NA)	45-49 years.....	39,051	12.5	18,000
Not reported.....	46,712	14.9	15,000	50-54 years.....	27,460	8.8	18,500
Highest degree:				55-59 years.....	18,464	5.9	18,500
Ph. D.....	125,234	40.1	10,500	60-64 years.....	10,879	3.5	18,300
Professional medical.....	7,294	2.3	24,000	65-69 years.....	4,737	1.5	18,000
Master's.....	93,540	20.0	13,500	70 years and over.....	2,283	0.7	16,000
				Not reported.....	928	0.3	13,500

NA Not available.

Source: National Science Foundation. Data derived from the National Register of Scientific and Technical Personnel, 1970.

## No. 815. SCIENTISTS AND ENGINEERS—EMPLOYMENT BY TYPE OF INSTITUTION, BY FIELD OF EMPLOYMENT: 1965 AND 1969

[As of January. Includes full-time and part-time personnel. Excludes graduate students who received stipends for part-time services as scientists or engineers. R and D=research and development]

FIELD OF EMPLOYMENT	UNIVERSITIES AND COLLEGES		FED. FUNDED R AND D CENTERS		FIELD OF EMPLOYMENT	UNIVERSITIES AND COLLEGES		FED. FUNDED R AND D CENTERS	
	1965	1969	1965	1969		1965	1969	1965	1969
<b>Total</b> .....	<b>188,470</b>	<b>253,536</b>	<b>11,017</b>	<b>11,502</b>	Mathematicians.....	13,600	22,812	952	1,091
Engineers <sup>1</sup> .....	21,953	25,827	4,969	5,050	Life scientists.....	83,762	102,808	653	424
Aeronautical.....	1,127	1,371	204	183	Agriculture.....	14,375	15,338	37	-
Chemical.....	1,571	1,776	263	293	Biological.....	24,209	29,499	486	333
Civil.....	3,145	4,002	180	142	Medical.....	45,178	57,671	180	91
Electrical.....	5,628	6,940	2,194	2,185	Psychologists.....	9,449	14,041	109	173
Mechanical.....	4,258	4,896	1,311	1,450	Social scientists <sup>1</sup> .....	32,603	52,869	75	349
Physical scientists <sup>1</sup> .....	26,048	34,279	4,247	4,415	Economists.....	7,082	10,498	4	45
Chemists.....	10,991	14,511	1,254	1,270	Sociologists.....	6,261	9,472	13	33
Earth scientists.....	4,105	5,000	152	85	Political scientists.....	5,019	7,666	13	17
Physicists.....	9,439	11,932	2,357	2,673	Historians.....	(NA)	14,460	(NA)	12

- Represents zero. NA Not available. <sup>1</sup> Includes other engineers or scientists not shown separately.

Source: National Science Foundation. Data derived from the 1964, 1969, and 1969 Surveys of Scientific Activities of Institutions of Higher Education.

## No. 816. SCIENTISTS, ENGINEERS, AND PHYSICIANS ADMITTED AS IMMIGRANTS, BY OCCUPATION: 1964 TO 1970

[For years ending June 30. Includes professors and instructors in each field]

OCCUPATION	1964-1970, total	1964	1965	1966	1967	1968	1969	1970
<b>Scientists and engineers</b> .....	<b>67,400</b>	<b>5,762</b>	<b>5,345</b>	<b>7,205</b>	<b>12,523</b>	<b>12,973</b>	<b>10,255</b>	<b>13,337</b>
Engineers <sup>1</sup> .....	46,675	3,725	3,446	4,915	8,821	9,313	7,150	9,305
Aeronautical.....	1,308	64	69	241	369	334	126	105
Chemical.....	3,650	107	163	325	608	602	796	908
Civil.....	5,615	422	399	459	840	1,030	917	1,600
Electrical.....	7,054	559	447	680	1,344	1,432	1,128	1,404
Industrial.....	1,717	145	132	169	292	375	248	350
Mechanical.....	7,111	419	372	577	1,344	1,530	1,201	1,618
Metallurgical and mining.....	1,220	111	124	139	245	228	163	219
Sales.....	463	47	51	57	101	89	55	63
Natural scientists <sup>1</sup> .....	17,433	1,754	1,597	1,949	3,158	3,110	2,601	3,264
Agricultural scientists <sup>2</sup> .....	1,576	153	181	185	189	179	309	380
Biologists and medical scientists.....	1,951	162	173	227	377	328	296	388
Chemists.....	8,101	859	718	874	1,392	1,481	1,282	1,495
Geologists, geophysicists.....	889	98	114	98	123	174	120	162
Mathematicians, statisticians, etc.....	1,770	147	114	176	398	351	238	348
Physicists.....	2,547	274	232	315	540	494	291	401
Social scientists <sup>1</sup> .....	3,292	283	302	341	544	550	504	768
Economists.....	1,621	186	174	164	263	265	249	370
Psychologists.....	881	98	78	97	143	159	123	163
Physicians and surgeons.....	19,106	2,249	2,012	2,549	3,325	3,060	2,756	3,155

<sup>1</sup> Includes occupations not shown separately. <sup>2</sup> Includes foresters and conservationists.Source: National Science Foundation; annual report, *Scientists, Engineers, and Physicians from Abroad*. Based on data from Dept. of Justice, Immigration and Naturalization Service.



# NO. 817. MEDIAN SALARIES IN SELECTED SCIENCE FIELDS: 1966, 1968, AND 1971

[In dollars. Covers full-time employed civilians reporting to the National Register of Scientific and Technical Personnel. For discussion of coverage, see text, p. 508. For definition of median, see preface]

FIELD	1966	1968	1970	FIELD	1966	1968	1970
<b>All fields</b> .....	<b>12,000</b>	<b>13,200</b>	<b>15,000</b>	Linguistics.....	10,000	11,500	12,500
Agricultural sciences.....	10,000	11,000	12,800	Mathematics.....	(NA)	13,000	14,300
Anthropology.....	11,500	12,700	14,700	Atmospheric and space sciences.....	11,700	13,400	15,200
Biological sciences.....	12,000	13,000	15,000	Physics.....	12,500	14,000	15,900
Chemistry.....	12,000	13,500	15,300	Political science.....	(NA)	12,000	13,100
Computer sciences.....	(NA)	14,100	16,500	Psychology.....	11,500	13,200	15,000
Earth and marine sciences.....	11,400	12,900	14,900	Sociology.....	11,300	12,000	13,000
Economics.....	13,100	15,000	16,300	Statistics.....	12,800	14,900	16,900

NA Not available.

Source: National Science Foundation; *Reviews of Data on Science Resources*, Nos. 11, 16, and 19.

# NO. 818. SCIENTISTS—NUMBER AND MEDIAN ANNUAL SALARIES, BY TYPE OF EMPLOYER AND WORK ACTIVITY: 1970

[For discussion of coverage, see text, p. 508. For definition of median, see preface]

TYPE OF EMPLOYER	Total	WORK ACTIVITY							
		Research and development			Management or administration		Teaching <sup>3</sup>	Production and inspection	Other
		Total <sup>1</sup>	Basic research	Applied research	Total <sup>2</sup>	R and D			
All employers, number	312,644	97,078	44,544	40,704	68,708	29,723	72,408	16,086	58,364
Educational institutions	130,389	39,843	28,764	10,543	11,938	3,997	70,302	203	8,103
Federal Government	31,118	12,860	5,538	6,643	11,417	4,794	355	952	5,534
Other government	11,741	3,016	1,062	1,789	4,829	1,433	361	556	2,979
Military	7,285	1,422	630	699	2,636	692	404	254	2,570
Nonprofit organizations	10,911	4,601	2,173	2,231	3,051	1,520	265	231	2,763
Industry and business	97,542	33,803	5,655	18,155	33,321	16,779	274	13,437	16,707
Self-employed	6,314	535	147	312	857	265	65	257	4,000
Other	2,116	668	366	232	482	175	214	166	586
No report of employer	15,228	330	209	100	178	68	168	30	14,522
Median salary, employers	\$15,000	\$15,000	\$14,700	\$15,800	\$19,200	\$20,700	\$12,300	\$13,600	(NA)
Educational institutions <sup>3</sup>	15,500	14,500	13,700	16,000	20,500	21,000	15,000	13,700	(NA)
Federal Government	16,100	15,800	16,000	15,800	18,000	21,600	15,100	13,800	(NA)
Other government	13,000	12,900	13,100	12,600	13,600	14,300	13,000	11,000	(NA)
Nonprofit organizations	16,400	15,800	15,000	16,300	20,000	22,000	14,500	11,200	(NA)
Industry and business	16,700	16,000	16,700	16,100	20,000	21,000	15,000	13,800	(NA)
Self-employed	20,000	17,700	13,500	18,000	18,000	20,000	18,000	16,200	(NA)
Other	14,000	13,600	12,000	15,000	17,500	18,300	10,000	12,700	(NA)
No report of employer	15,000	14,400	13,500	14,600	18,000	18,900	12,100	13,200	(NA)

NA Not available.

<sup>1</sup> Includes development or design, not separately identified.

<sup>2</sup> Includes management or administration of activities other than research or development that were not separately identified. <sup>3</sup> Salaries are computed on a calendar year (11-12 month) basis.

<sup>4</sup> 12,908 not employed and 2,320 not reporting type of employer.

Source: National Science Foundation. Data derived from the National Register of Scientific and Technical Personnel, 1970.

# NO. 819. MEAN ANNUAL SALARIES OF PROFESSIONAL, SCIENTIFIC, TECHNICAL, AND HEALTH PERSONNEL, BY OCCUPATIONAL FIELD, BY SEX: 1969

[In dollars. As of October]

OCCUPATIONAL FIELD	Total	Male	Female	OCCUPATIONAL FIELD	Total	Male	Female
<b>Scientific personnel, total</b> .....	<b>15,277</b>	<b>15,462</b>	<b>13,166</b>	Mathematics and statistics.....	16,089	16,625	13,608
Physical sciences.....	16,730	16,980	13,084	Mathematics.....	14,475	14,873	13,082
General physical.....	10,075	10,296	13,662	Statistics.....	16,158	16,554	14,207
Chemistry.....	15,197	15,656	12,623	Social sciences.....	16,710	17,257	13,927
Physics.....	10,688	16,746	14,075	General.....	15,682	16,527	13,685
Biological sciences.....	13,243	13,295	12,106	Economics.....	17,303	17,630	14,753
General biological.....	15,099	15,829	11,233	History.....	14,089	14,800	11,198
Agricultural sciences.....	12,460	12,451	15,314	Geography and cartography.....	12,889	13,027	11,263
Animal sciences.....	10,219	16,354	13,688	Psychology.....	17,160	17,452	15,234
Microbiology.....	14,731	15,598	12,485	<b>Health personnel, total</b> .....	<b>13,469</b>	<b>17,376</b>	<b>10,499</b>
Plant sciences.....	13,562	13,696	11,914	Health officers.....	19,774	19,718	20,817
				Nursing personnel.....	10,080	11,202	10,048

Source: National Science Foundation; *Scientific Technical and Health Personnel in the Federal Government 1969* (NSF 70-44) and unpublished data. Compiled from data supplied by Civil Service Commission.

# NO. 820. DOCTORATES CONFERRED—TOTAL AND SELECTED SCIENCE FIELDS, BY CHARACTERISTICS: 1970

[Year ending June 30. For definition of median, see preface]

ITEM	All fields, total <sup>1</sup>	Physical sciences <sup>2</sup>	Engi- neering	Life sciences <sup>3</sup>	Psy- chology	Social sciences <sup>4</sup>
Doctorates conferred.....	20,436	5,607	3,432	4,564	1,883	2,330
Percent.....	100.0	100.0	100.0	100.0	100.0	100.0
Male.....	86.5	94.3	99.5	87.1	76.4	88.1
Female.....	13.4	5.7	.4	12.9	23.5	11.9
U.S. citizens.....	84.2	82.3	73.0	79.8	93.8	78.6
Foreign citizens.....	14.0	16.3	26.3	19.4	5.2	19.2
Citizenship unknown.....	1.8	1.3	.6	.7	.8	2.1
Median age at award.....years.....	30.7	28.3	29.5	29.5	28.9	30.9
Percent with baccalaureate in same field as doctorate.....	59.5	78.7	87.7	35.9	69.7	49.3
Percent with master's degree.....	78.6	57.9	89.8	66.8	75.8	78.3
Median time lapse from baccalaureate to doctorate: Total time.....years.....	7.9	6.1	7.0	6.7	6.2	7.8
Registered time.....years.....	5.6	5.3	5.2	5.3	5.3	5.6

<sup>1</sup> Includes arts and humanities, not shown separately.

<sup>2</sup> Includes astronomy, physics, chemistry, earth sciences, and mathematics.

<sup>3</sup> Includes agriculture, forestry, health sciences, and biological sciences.

<sup>4</sup> Includes anthropology, archaeology, sociology, economics, political science, international relations.

Source: National Science Foundation. Data from National Research Council; *Summary Report, 1970 Doctorate Recipients from United States Universities*.

# NO. 821. SCIENCE DOCTORATES CONFERRED AND ENROLLMENT FOR ADVANCED DEGREES: 1960 TO 1970

[Doctorates conferred, years ending June 30; enrollment, as of fall term]

FIELD OF SCIENCE	1960	1964	1965	1966	1967	1968	1969	1970
Science doctorates conferred.....	6,276	9,311	10,528	11,469	12,981	14,420	15,993	17,822
Life sciences <sup>1</sup> .....	1,730	2,363	2,679	2,889	3,118	3,681	4,116	4,564
Agricultural and related.....	343	445	480	485	517	581	707	809
Health sciences.....	69	142	145	175	176	195	253	300
Anatomy, cytology, embryology.....	33	105	139	132	160	154	208	221
Physiology and related fields.....	217	350	403	396	470	574	579	626
Botany and phytopathology.....	188	205	240	247	215	285	295	281
Biochemistry.....	260	371	391	446	405	573	547	580
Microbiology.....	184	194	278	289	330	357	380	399
Zoology and entomology.....	270	309	390	395	372	466	457	519
Psychology.....	773	1,013	955	1,133	1,293	1,452	1,728	1,883
Physical sciences.....	1,861	2,527	2,859	3,028	3,478	3,842	3,901	4,389
Physics and astronomy.....	531	864	1,046	1,049	1,295	1,422	1,462	1,667
Chemistry.....	1,077	1,351	1,439	1,680	1,764	1,782	1,947	2,223
Earth sciences.....	263	312	374	399	419	483	502	509
Engineering.....	792	1,062	2,088	2,283	2,581	2,833	3,234	3,432
Mathematics.....	291	590	684	766	828	970	1,063	1,218
Social sciences, selected.....	829	1,156	1,283	1,390	1,985	1,842	1,951	2,336
Sociology.....	162	201	239	258	332	382	402	506
Economics.....	352	526	561	622	700	755	790	971
Pol. science, pub. admin., int'l rel.....	238	336	391	401	496	571	559	634
Anthropology and archeology.....	77	93	92	109	158	153	191	225
Graduate enrollment, all fields.....	314,349	477,535	535,332	583,090	649,697	708,745	756,865	
Science fields.....	120,638	177,544	196,346	207,049	224,468	234,631	243,715	
Agriculture and forestry.....	4,412	6,622	6,426	6,698	7,306	7,677	8,186	
Biological sciences, incl. general programs.....	15,303	25,165	28,823	30,309	32,648	33,999	38,017	
Mathematical subjects <sup>2</sup> .....	11,770	18,226	21,014	23,150	25,066	26,840	29,175	
Physical sciences.....	25,707	34,061	36,606	37,960	40,447	40,937	39,885	
Engineering.....	36,636	54,318	57,516	58,338	62,633	63,662	65,048	
Psychology.....	10,677	13,733	15,651	16,709	19,064	21,643	22,726	
Social sciences.....	16,133	26,419	30,010	33,895	37,304	39,303	42,678	
Health fields.....	5,842	8,234	8,909	9,839	10,139	11,373	12,564	
All other fields.....	187,869	291,757	331,077	366,112	415,090	457,711	500,680	

NA. Not available.

<sup>1</sup> Includes fields not shown separately. <sup>2</sup> Beginning 1965, includes computer science.

Source: National Science Foundation. Data from National Research Council, Doctorate Record File; and Dept. of Health, Education, and Welfare, Office of Education; *Enrollment for Masters and Higher Degrees*.

## No. 822. PATENTS AND TRADEMARKS: 1946 TO 1970

[Covers patents issued to citizens of United States and residents of foreign countries. For information on copyrights, see table 780. See also *Historical Statistics, Colonial Times to 1867*, series W 66-75 and W 77-78]

ITEM	1946-50	1951-55	1956-60	1961-65	1960	1965	1968	1969	1970
<b>Patent applications filed.</b>	<b>400,342</b>	<b>379,053</b>	<b>410,389</b>	<b>463,193</b>	<b>84,475</b>	<b>100,421</b>	<b>98,737</b>	<b>104,357</b>	<b>109,359</b>
Inventions.....	360,095	351,049	384,782	436,082	79,690	94,632	93,136	98,386	102,868
Designs.....	39,127	25,951	23,865	25,251	4,625	5,413	5,171	5,496	5,996
Botanical plants.....	398	467	584	628	181	105	95	111	188
Reissues.....	722	986	1,158	1,232	229	271	335	364	307
<b>Patents issued.....</b>	<b>163,034</b>	<b>208,964</b>	<b>251,872</b>	<b>275,443</b>	<b>49,986</b>	<b>66,647</b>	<b>62,713</b>	<b>71,229</b>	<b>67,962</b>
Inventions.....	144,076	192,651	237,469	259,971	47,170	62,857	59,102	67,557	64,427
Individuals.....	58,957	78,459	76,589	69,945	13,069	16,063	13,555	14,772	13,511
Corporations:									
United States.....	78,376	100,278	133,948	152,537	28,187	37,158	34,886	38,847	36,896
Foreign.....	4,669	10,537	21,043	30,992	4,670	8,096	9,172	12,188	12,294
U.S. Government.....	1,761	3,350	5,889	6,497	1,244	1,540	1,489	1,750	1,726
Designs.....	18,016	15,084	13,024	13,862	2,543	3,424	3,352	3,335	3,214
Botanical plants.....	334	441	567	576	116	120	72	103	52
Reissues.....	608	788	812	1,034	157	246	187	234	269
Defensive Publications <sup>1</sup> .....	-	-	-	-	-	-	96	275	215
<b>Certificates of trade-</b>									
<b>marks issued.....</b>	<b>85,611</b>	<b>100,942</b>	<b>108,246</b>	<b>106,635</b>	<b>22,367</b>	<b>21,666</b>	<b>26,174</b>	<b>26,789</b>	<b>27,821</b>
Trademarks.....	61,339	83,311	90,727	91,946	18,434	18,601	21,628	20,613	21,745
Trademark renewals.....	24,272	17,631	17,519	14,689	3,933	3,165	4,646	6,176	6,076

- Represents zero.

<sup>1</sup> Patent applications published at request of applicant or owner and identified by distinct seven digit numbers. First Defensive Publication published in November 1968.

Source: Dept. of Commerce, Patent Office; unpublished data. Fiscal-year figures are published in the *Annual Report of the Commissioner of Patents*.

## No. 823. SHIPMENTS OF ATOMIC ENERGY EQUIPMENT AND PRODUCTS: 1968 AND 1969

[In thousands of dollars. Excludes construction expenditures, engineering and design costs, research and development expenditures, and products used in atomic energy which are not uniquely designed for nuclear applications. Excludes radiation detection and monitoring devices and control and measuring devices containing radioactive isotopes]

ITEM	1968			1969		
	Total	U.S. Government agencies	Other, including exports	Total	U.S. Government agencies	Other, including exports
<b>Total.....</b>	<b>511,001</b>	<b>116,788</b>	<b>139,213</b>	<b>582,034</b>	<b>169,946</b>	<b>1412,088</b>
Nuclear reactors <sup>2</sup> .....	49,603	(D)	(D)	62,361	(D)	(D)
Reactor components and equipment:						
Control rod drive mechanisms and components <sup>3</sup> .....	197,650	24,326	173,324	167,441	37,608	129,833
Heat exchangers and condensers.....	60,661	19,475	41,186	57,691	19,538	38,153
Pressurizers, components, and auxiliary equipment.....	16,588	(D)	(D)			
Pumps.....	24,031	7,877	17,054	81,650	21,337	60,313
Valves.....	12,201	9,553	2,648	16,867	12,580	4,287
Complete reactor fuel elements and control rods shipped directly for installation or use in a reactor.....	65,542	(D)	(D)	92,226	(D)	(D)
Partially fabricated reactor fuel element materials and control rods not shipped directly for installation or use in a reactor.....	29,279	12,850	16,429	34,314	6,394	27,920
Reactor moderators, coolants, and reflectors.....	2,129	1,068	1,061			
Other specialized reactors components and equipment.....	8,655	1,135	7,520	16,444	2,072	14,372
Hot laboratory equipment.....	2,509	1,800	709	2,307	(D)	(D)
Shieldings.....	3,086	1,799	1,287	4,356	2,424	1,932
Radioactive isotopes shipped from non-AEC plants producing isotopes.....	11,193	128	11,067	14,985	734	14,251
Radiation sources and other radioactive materials produced from purchased isotopes.....	16,415	1,636	14,779	19,560	1,716	17,844
Receipts for processing of source and special nuclear materials and for commercial irradiation service.....	10,559	7,275	3,284	11,832	8,350	3,482

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup> Includes the value of products for which separate figures are not shown to avoid disclosure.

<sup>2</sup> Includes primary vessels and tanks.

<sup>3</sup> Includes core structurals (barrels, cans, boxes, plates, etc.), fuel handling equipment, and accessory instrumentation for reactor control.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series MA-38Q.

# No. 824. ATOMIC ENERGY COMMISSION—SELECTED DATA ON NUCLEAR REACTORS, URANIUM, RADIOISOTOPES, AND HEAVY WATER: 1960 TO 1970

[For years ending June 30, except as noted]

ITEM	1960	1965	1967	1968	1969	1970
<b>NUCLEAR REACTORS</b>						
Development costs.....mil. dol.	399	538	528	549	508	406
Civilian power reactors.....mil. dol.	100	117	141	167	155	148
Military reactors.....mil. dol.	187	116	105	124	128	139
Space propulsion.....mil. dol.	15	93	86	78	60	54
Auxiliary power sources.....mil. dol.	12	105	80	63	60	53
General.....mil. dol.	85	107	116	117	118	102
<b>Electrical generation: <sup>1</sup></b>						
Capacity.....net electrical megawatts..	396	1,057	2,838	2,769	4,806	7,532
Gross output.....1,000 megawatt hours..	591	4,868	8,836	13,974	16,388	23,760
<b>URANIUM</b>						
<b>AEC procurement:</b>						
Quantity.....tons of U <sub>3</sub> O <sub>8</sub> ..	34,582	15,313	0,979	7,737	7,124	4,009
Cost.....mil. dol.	704	265	165	124	100	49
Estimated ore reserves <sup>2</sup> .....1,000 tons of contained U <sub>3</sub> O <sub>8</sub> ..	238	145	148	161	204	243
Rated ore milling capacity <sup>2</sup> .....1,000 tons per day..	22	12	15	18	26	31
<b>RADIOISOTOPES</b>						
Sales by AEC.....\$1,000..	2,209	1,601	1,528	1,473	1,122	1,138
Exports (domestic) <sup>1,2</sup> .....\$1,000..	1,286	3,026	3,144	3,018	5,395	4,194
Imports <sup>1,2</sup> .....\$1,000..	1,394	2,818	2,977	3,241	4,697	3,471
<b>HEAVY WATER</b>						
Sales by AEC.....tons..	80	82	421	98	348	620
Value.....\$1,000..	4,867	4,067	19,882	4,822	17,234	34,633

<sup>1</sup> Calendar year data. <sup>2</sup> As of December.

<sup>3</sup> Source: Dept. of Commerce, Bureau of the Census; prior to 1968, FT 9523, *U.S. Exports of Radioactive and Stable Isotopes* and FT 9066, *U.S. Imports of Radioactive Stable Isotopes*; 1968, U.S. Exports, Schedule B Commodity and Country and FT 246, *U.S. Imports for Country*; export figures include shipments made by...

Source: Atomic Energy Commission; *Annual Report*, and unpublished data, except as noted.

# No. 825. ATOMIC ENERGY COMMISSION—FINANCES AND EMPLOYMENT: 1955 TO 1970

[Money figures in millions of dollars. For years ending June 30]

ITEM	1955	1960	1965	1966	1967	1968	1969	1970
<b>Appropriations received</b>								
Operations.....	1,210	2,650	2,625	2,366	2,199	2,509	2,616	2,222
Plant and capital equipment.....	1,099	2,387	2,262	2,122	1,923	2,140	2,109	1,867
	111	263	363	244	276	369	507	355
<b>Plant investment, year end</b>								
Completed plant.....	6,487	7,345	8,871	9,048	9,062	9,127	9,454	9,728
Production plants.....	5,858	7,018	8,470	8,748	8,820	8,827	9,012	9,173
Research and development facilities.....	4,046	5,468	5,464	5,446	5,368	5,310	5,333	5,407
Other.....	707	1,271	2,370	2,672	2,841	2,928	3,077	3,170
Construction in progress.....	605	289	636	629	611	591	602	696
	629	327	401	300	243	300	442	555
<b>Cost of operations (incl. depreciation)</b>								
Procurement of raw materials.....	1,290	2,619	2,570	2,440	2,447	2,507	2,566	2,504
Production of nuclear materials.....	194	717	261	206	162	125	101	61
	588	731	571	544	521	507	495	490
Weapons development and fabrication.....	259	505	763	730	737	784	898	896
Development of nuclear reactors.....	115	309	538	489	528	548	508	496
Physical research.....	48	133	237	265	292	310	332	336
Biology and medicine research.....	29	49	84	91	95	99	99	100
Community operations (net).....	10	7	4	3	2	1	-	-
Administrative expenses.....	34	51	80	84	89	97	108	124
Expenses and income (net).....	13	27	31	29	20	36	25	11
<b>Employment</b>								
Federal Government.....	112,618	122,718	133,912	128,206	130,101	129,959	127,212	122,472
Contractor operating.....	6,076	6,907	7,329	7,443	7,506	7,665	7,467	7,548
Contractor construction and design.....	82,936	104,612	114,783	113,221	113,619	111,846	108,856	105,995
	23,606	11,199	11,800	8,542	8,976	10,448	10,899	8,929

- Represents zero.

Source: Atomic Energy Commission; *Financial Report*.

# NO. 826. FEDERAL SPACE PROGRAM—EXPENDITURES, BY AGENCY: 1960 TO 1972

[In millions of dollars. For years ending June 30]

YEAR	Total <sup>1</sup>	NASA <sup>2</sup>	Dept. of Defense	AEC <sup>3</sup>	YEAR	Total <sup>1</sup>	NASA <sup>2</sup>	Dept. of Defense	AEC <sup>3</sup>
1960-----	888	329	518	41	1967-----	7,208	5,307	1,673	184
1961-----	1,468	694	710	64	1968-----	6,647	4,575	1,890	146
1962-----	2,387	1,226	1,029	130	1969-----	6,331	4,083	2,095	117
1963-----	4,079	2,517	1,368	181	1970-----	5,424	3,565	1,756	103
1964-----	5,900	4,101	1,564	220	1971 (est.)--	4,859	3,185	1,577	97
1965-----	6,856	5,005	1,592	232	1972 (est.)--	4,595	2,958	1,576	62
1966-----	7,689	5,828	1,637	188					

<sup>1</sup> Includes agencies not shown separately.

<sup>2</sup> National Aeronautics and Space Administration. Excludes amounts for aircraft technology.

<sup>3</sup> Atomic Energy Commission.

Source: 1960-1965, Report to the Congress from the President of the United States: *United States Aeronautics and Space Activities, 1966*; thereafter, Executive Office of the President, Office of Management and Budget; *The Budget of the United States Government*.

# NO. 827. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION—EXPENDITURES FOR RESEARCH AND DEVELOPMENT: 1965 TO 1971

[In millions of dollars. For years ending June 30]

PROGRAM	PERFORMANCE <sup>1</sup>							FACILITIES						
	1965	1966	1967	1968	1969	1970	1971 est.	1965	1966	1967	1968	1969	1970	1971 est.
Total-----	4,562	5,361	5,137	4,599	4,187	3,699	3,319	531	572	289	127	65	54	59
Manned space flight-----	3,138	3,819	3,477	3,028	2,754	2,195	1,878	401	391	172	69	27	14	9
Space science and applications-----	725	755	782	692	563	648	629	25	23	14	8	7	8	3
Space technology-----	401	365	378	369	330	315	284	53	40	33	21	14	13	1
Aircraft technology-----	88	101	116	145	162	183	170	-	4	2	4	7	5	5
Supporting operations-----	210	321	394	355	378	358	349	52	114	68	25	10	14	32

- Represents zero.

<sup>1</sup> Includes research and development and research and program management.

Source: Executive Office of the President, Office of Management and Budget; *The Budget of the United States Government*.

# NO. 828. SPACECRAFT LAUNCHINGS: 1957 TO 1970

[Criterion of success is attainment of earth orbit or earth escape, respectively]

YEAR	UNITED STATES				U.S.S.R. successful launch- ings	YEAR	UNITED STATES				U.S.S.R. successful launch- ings
	Earth orbit		Earth escape				Earth orbit		Earth escape		
	Suc- cess	Fail- ure	Suc- cess	Fail- ure			Suc- cess	Fail- ure	Suc- cess	Fail- ure	
Total	654	102	40	12	516	1963	60	11	-	-	18
1957	-	1	-	-	2	1964	69	8	4	-	38
1958	5	8	-	4	1	1965	94	8	3	-	73
1959	9	9	1	2	3	1966	95	12	5	1	51
						1967	77	4	10	-	67
1960	16	12	1	2	3	1968	61	3	3	-	74
1961	35	12	-	12	7	1969	50	1	8	-	70
1962	54	12	4	1	21	1970	29	1	1	-	88

- Represents zero.

<sup>1</sup> Attained earth orbit and included in earth orbit success totals.

Source: Report to the Congress from the President of the United States; *U.S. Aeronautical and Space Activities, 1968, 1969, and 1970*.

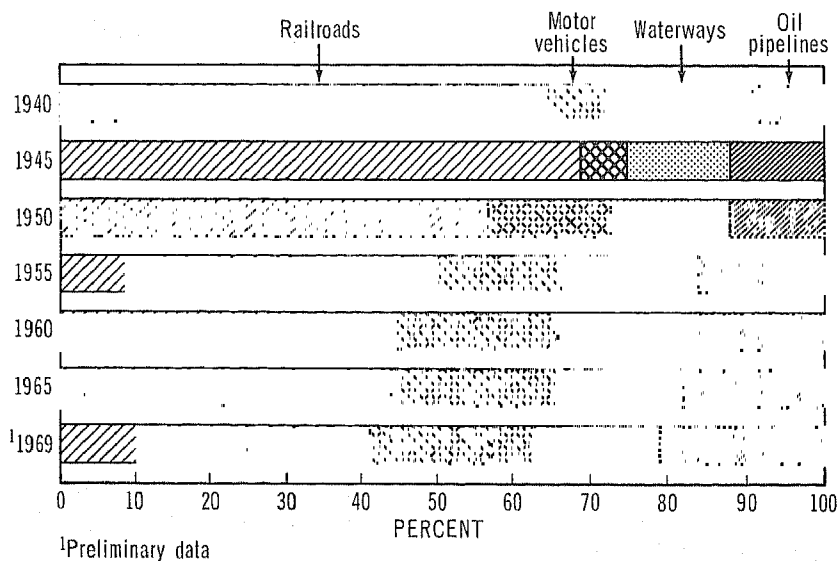
COUNTRY, VEHICLE, AND ASTRONAUT	Launching date	PAYLOAD		EARTH ORBITS			Life-time (hr.: min.)		
		Dimensions <sup>1</sup> (ft.)	Liftoff weight (lb.)	Perigee (statute miles)	Apogee (statute miles)	Revolutions <sup>2</sup>			
UNITED STATES									
<b>Mercury Atlas:</b> <sup>3</sup>									
6.....Glean.....	2-20-62	4 26H-6D	5 4,265	100	162.2	3	4:55		
7.....Carpenter.....	5-24-62	4 26H-6D	5 4,244	99.9	166.8	3	4:56		
8.....Schirra.....	10- 8-62	4 26H-6D	5 4,325	100	175.8	6	9:13		
9.....Cooper.....	5-15-63	4 26H-6D	5 4,000	100.3	165.9	22	34:19		
<b>Gemini:</b> <sup>4</sup>									
3.....Grissom and Young.....	3-23-65	19H-10D	7,136	100	139	3	4:52		
4.....McDivitt and White.....	6- 3-65	19H-10D	7,879	100	184	62	97:56		
5.....Cooper and Conrad.....	8-21-65	19H-10D	7,879	100	207	120	190:55		
6.....Schirra and Stafford.....	12-15-65	19H-10D	7,817	100	193	16	25:51		
7.....Borman and Lovell.....	12- 4-65	19H-10D	8,076	100	204	206	330:35		
8.....Armstrong and Scott.....	3-16-66	19H-10D	8,351	99	186	6.6	10:41		
9.....Cernan and Stafford.....	6- 3-66	19H-10D	8,100	100	194	45	72:21		
10.....Young and Collins.....	7-18-66	19H-10D	8,295	100	476	42	70:46		
11.....Conrad and Gordon.....	9-12-66	19H-10D	8,374	99	853	44	71:17		
12.....Lovell and Aldrin.....	11-11-66	19H-10D	8,296	100	187	59	94:34		
<b>Apollo:</b> <sup>7</sup>									
7.....Schirra, Eisele, and Cunningham.....	10-11-68	4 82H-21.7D	45,374	104	282	163	260:08		
8.....Borman, Lovell, and Anders.....	12-21-68	4 82H-21.7D	96,260	119	119	8 <sup>2</sup>	147:00		
9.....McDivitt, Scott, Schweickart.....	3- 3-69	4 82H-21.7D	103,085	112	312	151	241:00		
10.....Stafford, Young, and Cernan.....	5-18-69	4 82H-21.7D	107,230	115	118	9 <sup>2</sup>	192:03		
11.....Armstrong, Collins, and Aldrin.....	7-16-69	4 82H-21.7D	109,555	118	118	10 <sup>2</sup>	105:18		
12.....Conrad, Gordon, and Bean.....	11-14-69	4 82H-21.7D	109,800	115	118	11 <sup>2</sup>	244:36		
13.....Lovell, Swigert, and Haise.....	4-11-70	4 82H-21.7D	110,210	115	115	12 <sup>2</sup>	142:55		
14.....Shepard, Mitchell, and Roosa.....	1-31-71	4 82H-21.7D	111,132	113.7	117.3	13 <sup>2</sup>	216:20		
U.S.S.R.									
<b>Vostok (East):</b>									
I.....Gagarin.....	4-12-61	20H	10,418	108.8	187.7	1	1:45		
II.....Titov.....	8- 6-61	20H (12-14D)	10,430	110.3	115.3	17.5	25:18		
III.....Nikolayev.....	8-11-62	(NA)	10,400	107.4	137.2	64+	94:35		
IV.....Popovich.....	8-12-62	(NA)	10,400	111	158	48+	70:57		
V.....Bykovsky.....	6-14-63	(NA)	10,360	99	120	81	119:06		
VI.....Tereshkova.....	6-16-63	(NA)	10,360	108	135	48	70:50		
<b>Voskhod (Sunrise):</b>									
I.....Komarov, Yegorov, and Feoktistov.....	10-12-64	(NA)	16,000	111	254	16	24:17		
II.....Belyayev and Leonov.....	3-18-65	(NA)	(NA)	107.2	306.9	17	27:02		
<b>Soyuz (Union):</b>									
I.....Komarov <sup>14</sup> .....	4-23-67	(NA)	(NA)	122.6	137.9	18	26:45		
III.....Beregovoy.....	10-26-68	(NA)	(NA)	(NA)	(NA)	61	94:51		
IV.....Shtalov.....	1-14-69	(NA)	(NA)	(NA)	(NA)	48	71:14		
V.....Volynov, Yeliseyev, Krunov.....	1-15-69	(NA)	(NA)	(NA)	(NA)	49	72:46		
VI.....Shonin, Kubasov.....	10-11-69	(NA)	14,500	(NA)	(NA)	75	118:21		
VII.....Filipchenko, Volkov, Gorbazko.....	10-12-69	(NA)	14,500	(NA)	(NA)	75	118:		

NA Not available. HI=height of the spacecraft above the surface of the moon is the distance a spacecraft must travel to return to a specified line of longitude, 280,000 lb.; dimensions, 93H-10D.  
<sup>4</sup> Dimensions and weight given in parentheses. and lunar modules including escape tower.  
<sup>5</sup> Recovery weight (in lb.): 340,000 lb.;  
 dimensions: 100H-10D; weight: 250,000 lb.; maximum  
 dimensions: 100H-10D; weight: 250,000 lb.; maximum  
 the moon 70 statute miles above  
 orbit, 61.1 modules; time in lunar  
 21 hrs. 36 bit were 68.6 and 196.1  
 about 75 earth revolutions and  
 around 100 lunar surface  
<sup>14</sup> Cosm. 100 lunar surface  
 one pass  
 ing Soviet XI reentry.

Source: National Aeronautics and Space Administration; *Space Activities Summary*, various dates. (For U.S.S.R., based on unofficial data from U.S. and Soviet press and radio.)

FIG. XXXIV. PERCENT DISTRIBUTION OF TON-MILES OF DOMESTIC INTERCITY FREIGHT TRAFFIC, BY TYPE OF TRANSPORTATION: 1940 TO 1969

[Airways not shown separately—less than 1 percent. See table 831]

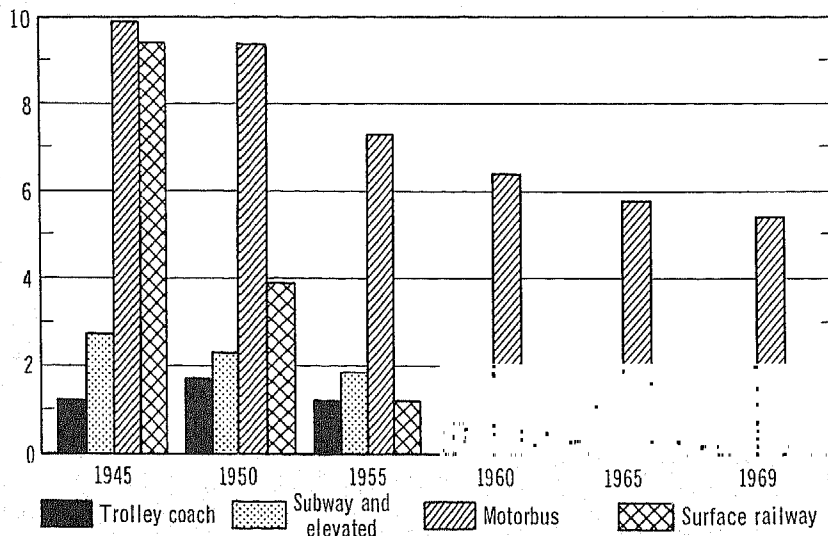


Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Interstate Commerce Commission.

FIG. XXXV. PASSENGERS CARRIED BY PUBLIC TRANSPORTATION: 1945 TO 1969

[See table 868]

BILLIONS OF PASSENGERS



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from American Transit Association, Washington, D.C.

## Section 21

### Transportation—Land

This section presents statistics relating to the mileage, control, and financing of public roads and to the transportation of persons and goods by land. The modes of transport included are passenger car, truck, railroad, bus and streetcar, and pipeline.

The principal compiler of data on public roads and on ownership and operation of motor vehicles is the Department of Transportation's Federal Highway Administration. The annual *Highway Statistics* and the historical *Highway Statistics, Summary to 1965*, are publications of the Federal Highway Administration; *Accidents of Large Motor Carriers of Property* and *Accidents of Class I Motor Carriers of Passengers*, which present data on accidents involving intercity trucks and buses, respectively, are annual publications of the Bureau of Motor Carrier Safety. The department's Federal Railroad Administration presents data on accidents involving railroads in its annual *Accident Bulletin*.

Another major source of data on land transport is the Interstate Commerce Commission. Among its publications are the monthly *Transport Economics* and the *Annual Report*, containing operating data on all types of domestic transport, and the annual *Transport Statistics in the United States*, which is issued in separate parts. Part 1 is devoted to railroads, part 6 to oil pipelines, and part 7 to motor carriers. *Statistics of Railways in the United States*, published annually from 1887 through 1953, is a source of historical data.

Various censuses conducted by the Bureau of the Census also provide data relating to transportation. Data from the 1963 and 1967 censuses of transportation are presented in *Commodity Transportation Survey*, *National Travel Survey*, and *Truck Inventory and Use Survey*. The 1967 *Motor Carrier Survey* was conducted as part of the Census of Business; data from the corresponding 1963 survey were issued as part of the Census of Transportation. The *Annual Survey of Manufactures* and reports of the Census of Manufacturers and the Census of Business contain statistics on the motor-vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Additional data from those reports are included in sections 28 and 29.

Nongovernmental data can be found in the weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, D.C.; *Bus Facts*, issued annually by the National Association of Motor Bus Owners, Washington; the *Transit Fact Book*, containing street railway and motorbus statistics, published annually by the American Transit Association, Washington; and *Transportation Facts and Trends*, issued by the Transportation Association of America, Washington. Useful annual handbooks in the field of motor-vehicle transport are *Automobile Facts and Figures* and *Motor Truck Facts*, both issued by the Automobile Manufacturers Association, Detroit; *American Trucking Trends*, issued by the American Trucking Association, Washington; and *Accident Facts*, issued by the National Safety Council, Chicago.

**Highway systems.**—The Federal-Aid Highway Act of 1916 provides for the sharing of highway construction costs between the States and the Federal Government with the initiative retained by each State for choosing projects and carrying them out. The planning and development of Federal-aid systems began in 1921. Federal funds share with State funds in costs of engineering, construction, and right-of-way acquisition on the designated systems while other charges, such as maintenance and policing, are borne entirely by the States and local agencies.

The Federal-aid primary system connects all of the principal cities, county seats, ports, manufacturing areas, and other traffic generating areas. In general, these are



the same as the State trunklines. The Federal-aid secondary system consists of important feeder roads linking the farms, factories, distribution outlets, and smaller communities with the primary system.

**Motor carriers.**—Prior to 1950, class I for-hire motor carriers were classified by the Interstate Commerce Commission as those with \$100,000 or more of gross annual operating revenue. Beginning 1950, the class I minimum became \$200,000. Beginning 1957, the class I minimum for motor carriers of property was increased to \$1,000,000; the class I minimum for motor carriers of passengers remained at \$200,000 until 1969, when it was increased to \$1,000,000.

**Railroads.**—The total railroad mileage of the United States comprises companies reporting to the Interstate Commerce Commission, grouped as follows: (1) Regular interstate carriers (and their nonoperating subsidiaries); (2) switching and terminal railroads; and (3) private railroads (identified by the Commission as "circular" because they report on brief circulars, or as "unofficial" when their reports are received too late for tabulation). For the most part, circular and unofficial companies, and switching and terminal railroads, are not included in the statistics.

Nonoperating subsidiaries comprise proprietary companies, which are covered by the reports of operating carriers, and lessor companies, which have no traffic and whose reports appear only in statistics of capitalization, dividends, and investment.

Operating railroads are classified on the basis of operating revenues. Prior to 1956, the classification was as follows: Class I, those having more than \$1,000,000 gross annual operating revenue; class II, from \$100,000 to \$1,000,000; and class III, less than \$100,000. From 1956 to 1964, the following classification was in effect: Class I, \$3,000,000 or more; and class II, under \$3,000,000. Effective January 1965, the classification was changed to the following: Class I, \$5,000,000 or more; and class II, under \$5,000,000.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

## No. 830. OPERATING REVENUES, BY TYPE OF TRANSPORT: 1940 to 1969

[Excludes Alaska and Hawaii, except as noted]

TRANSPORT AGENCY	1940	1945	1950	1955	1960	1965	1967	1968	1969 (prel.)
<b>REVENUES (mil. dol.)</b>									
Electric railways.....	53	87	79	60	23	13	12	12	13
Railway Express <sup>1</sup> .....	120	284	223	241	248	318	323	299	270
Railroads <sup>2,3</sup> .....	4,510	9,284	9,924	10,590	9,955	10,738	10,875	11,357	11,955
Waterlines <sup>4</sup> .....	113	173	330	452	427	426	426	435	450
Pipelines (oil) <sup>5</sup> .....	226	304	442	678	770	904	995	1,023	1,103
Domestic scheduled air carriers <sup>6</sup> .....	77	215	558	1,215	2,129	3,600	4,887	5,606	6,439
Motor carriers of property <sup>3</sup> .....	898	1,840	3,737	5,535	7,214	10,068	11,308	12,400	13,500
Motor carriers of passengers.....	176	652	539	552	667	885	945	991	1,007
<b>INDEX (1957-59=100, except as noted)</b>									
Railroads <sup>2</sup> .....	43	88	95	101	96	103	105	110	116
Pipelines (oil).....	31	41	60	92	104	122	135	139	149
Domestic scheduled air carriers <sup>6</sup> .....	(NA)	(NA)	(NA)	25	44	74	100	115	132
Motor carriers of property <sup>3</sup> .....	14	28	58	85	111	155	175	191	208
Motor carriers of passengers.....	29	107	88	91	109	145	155	163	165

NA Not available. <sup>1</sup> Includes express privileges. <sup>2</sup> Includes Pullman, line-haul, and so. <sup>3</sup> Includes Alaska and Hawaii. <sup>4</sup> Includes only revenues. <sup>5</sup> Includes Alaska and Hawaii. <sup>6</sup> Includes only revenues. <sup>7</sup> Source: Dept. of Transportation, Federal Aviation. Beginning 1955, includes Alaska and Hawaii. 1967=100.

Source: Interstate Commerce Commission; *Annual Report, Statistics of Class I, II, and III Motor Carriers, 1939-1968* (Statement No. 589), and *Transport Economics*, except as noted.

### No. 831. VOLUME OF DOMESTIC INTERCITY FREIGHT TRAFFIC, BY TYPE OF TRANSPORT: 1940 TO 1969

In millions of ton-miles, except percent. Motor vehicles and airways, prior to 1959, and other types of transportation, prior to 1960, exclude Alaska and Hawaii, except as noted. A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1957*, series Q 1-11]

YEAR	Total traffic, volume	RAILROADS <sup>1</sup>		MOTOR VEHICLES		INLAND WATERWAYS <sup>2</sup>		OIL PIPELINES		AIRWAYS <sup>3</sup>	
		Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total
1940-----	651,204	411,813	63.24	62,043	9.53	118,057	18.13	50,277	9.10	14	0.002
1945-----	1,072,490	730,194	68.64	66,948	6.24	142,737	13.31	126,530	11.80	91	0.008
1950-----	1,094,160	628,463	57.44	172,860	15.80	163,344	14.93	129,175	11.81	318	0.029
1955-----	1,298,060	654,573	50.43	223,254	17.20	216,508	16.68	203,244	15.66	481	0.037
1956-----	1,376,320	676,974	49.19	248,846	18.03	219,978	15.98	229,959	16.71	563	0.041
1957-----	1,354,012	644,746	47.62	254,174	18.77	231,792	17.12	222,728	16.45	572	0.042
1958-----	1,231,184	574,756	46.68	255,544	20.76	189,016	15.35	211,289	17.16	579	0.047
1959-----	1,302,570	599,347	46.01	278,934	21.41	196,559	15.09	226,991	17.43	739	0.057
1960-----	1,329,995	594,855	44.73	285,493	21.46	220,253	16.56	228,626	17.19	778	0.058
1961-----	1,325,816	585,558	44.17	296,485	22.36	209,706	15.82	233,172	17.69	805	0.068
1962-----	1,387,228	615,720	44.38	309,407	22.30	223,089	16.08	237,723	17.14	1,289	0.093
1963-----	1,468,733	643,664	43.82	336,170	22.89	234,172	15.94	253,431	17.26	1,296	0.088
1964-----	1,555,793	679,171	43.65	356,298	22.90	250,165	16.08	268,655	17.27	1,504	0.096
1965-----	1,650,997	721,055	43.67	359,218	21.76	262,421	15.89	306,393	18.56	1,910	0.116
1966-----	1,758,556	761,944	43.33	380,917	21.66	280,527	15.95	332,916	18.93	2,252	0.128
1967-----	1,775,582	742,049	41.79	388,500	21.88	281,400	15.85	361,041	20.33	2,592	0.145
1968-----	1,838,709	766,800	41.16	396,300	21.55	291,409	15.85	391,300	21.28	2,900	0.157
1969 (prel.)-----	1,898,200	780,000	41.09	404,000	21.28	300,000	15.80	411,000	21.65	3,200	0.169

<sup>1</sup> Includes electric railways, express, and mail.

<sup>2</sup> Includes Great Lakes. Includes Alaska for all years and Hawaii beginning 1959.

<sup>3</sup> Domestic revenue service only. Includes express, mail, and excess baggage.

Source: Interstate Commerce Commission; *Annual Report*, Statement No. 6103, *Intercity Ton-Miles, 1939-1959*, and monthly report, *Transport Economics*.

### No. 832. VOLUME OF DOMESTIC INTERCITY PASSENGER TRAFFIC, BY TYPE OF TRANSPORT: 1950 TO 1969

[In millions of passenger-miles, except percent. Airways, prior to 1959, and other types of transportation, prior to 1960, exclude Alaska and Hawaii. A passenger-mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue]

YEAR	Total traffic, volume	PRIVATE AUTOMOBILES		AIRWAYS <sup>1</sup>		BUS (excludes schoolbus)		RAILROADS <sup>2</sup>		INLAND WATERWAYS <sup>3</sup>	
		Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total
1950-----	508,472	438,293	86.20	10,072	1.98	26,436	5.20	32,481	6.39	1,190	0.23
1955-----	716,062	637,369	89.01	22,741	3.18	25,519	3.56	28,695	4.01	1,738	0.24
1956-----	750,861	669,679	89.19	25,523	3.40	25,189	3.35	28,610	3.81	1,860	0.25
1957-----	748,245	670,484	89.61	28,128	3.76	21,455	2.87	26,251	3.51	1,930	0.26
1958-----	769,848	684,892	90.14	28,522	3.75	20,756	2.73	23,605	3.11	2,073	0.27
1959-----	764,735	687,406	89.89	32,566	4.26	20,364	2.66	22,373	2.93	2,026	0.26
1960-----	783,628	706,079	90.10	33,958	4.33	19,327	2.47	21,574	2.75	2,688	0.34
1961-----	791,386	713,636	90.18	34,599	4.37	20,270	2.56	20,527	2.59	2,345	0.30
1962-----	818,140	735,931	89.95	37,491	4.58	21,801	2.66	20,181	2.47	2,736	0.33
1963-----	852,575	765,877	89.83	42,765	5.02	22,538	2.64	18,632	2.19	2,763	0.32
1964-----	895,537	801,796	89.53	49,185	5.49	23,344	2.61	18,374	2.05	2,838	0.32
1965-----	920,179	817,663	88.86	58,093	6.31	23,775	2.58	17,557	1.91	3,101	0.34
1966-----	971,021	856,358	88.19	69,356	7.14	24,692	2.53	17,288	1.78	3,447	0.35
1967-----	1,020,647	889,800	87.18	87,241	8.55	24,906	2.44	15,344	1.50	3,356	0.33
1968-----	1,078,860	936,428	86.80	101,139	9.38	24,500	2.27	13,265	1.23	3,480	0.32
1969 (prel.)-----	1,129,000	977,000	86.53	111,000	9.83	24,900	2.21	12,300	1.09	3,800	0.34

<sup>1</sup> Includes domestic commercial revenue service and private pleasure and business flying.

<sup>2</sup> Includes electric railways. <sup>3</sup> Includes Great Lakes.

Source: Interstate Commerce Commission; *Annual Report*, and monthly report, *Transport Economics*.

## No. 833. EMPLOYMENT IN TRANSPORTATION, BY TYPE OF TRANSPORT: 1960 TO 1970

[Annual averages]

TYPE OF TRANSPORT	NUMBER (1,000)				PERCENT			
	1960	1965	1969	1970	1960	1965	1969	1970
<b>Total</b> .....	<b>2,550</b>	<b>2,532</b>	<b>2,715</b>	<b>2,691</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Railroad.....	885	735	644	626	34.7	29.0	23.7	23.2
Local and interurban passenger.....	284	269	282	285	11.2	10.6	10.4	10.6
Trucking and warehousing.....	856	964	1,083	1,095	33.6	38.1	39.9	40.7
Air.....	191	229	353	346	7.5	9.0	13.0	12.9
Pipeline.....	23	20	18	18	0.9	0.8	0.7	0.7
Water.....	310	230	231	216	12.2	9.1	8.5	8.0
Other.....		85	104	105		3.4	3.8	3.9

Source: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*.

## No. 834. LARGEST TRANSPORTATION COMPANIES—REVENUES, ASSETS, INCOME, AND STOCKHOLDERS' EQUITY, BY RANK OF OPERATING REVENUES: 1960, 1965, AND 1970

[In millions of dollars, except percent. As of December 31 or calendar year, as applicable. Companies listed derive at least 50 percent of their operating revenues from carrier operations; excludes companies primarily engaged in freight forwarding, express shipping, or vehicle rental]

OPERATING REVENUE GROUP	1960		1965		1970			
	Revenues <sup>1</sup>	Assets <sup>2</sup>	Revenues <sup>1</sup>	Assets <sup>2</sup>	Revenues <sup>1</sup>	Assets <sup>2</sup>	Net income	Stockholders' equity <sup>3</sup>
<b>50 largest</b> .....	<b>11,795</b>	<b>30,684</b>	<b>15,702</b>	<b>35,606</b>	<b>23,047</b>	<b>46,412</b>	<b><sup>4</sup> 151</b>	<b>19,206</b>
Lowest ten.....	719	1,277	927	1,919	1,010	1,770	44	688
Second ten.....	1,111	1,905	1,258	1,733	1,357	1,655	22	588
Third ten.....	1,785	5,548	2,257	5,694	2,498	3,845	<sup>4</sup> 31	1,413
Fourth ten.....	2,718	7,589	3,690	8,331	5,550	12,720	313	6,124
Highest ten.....	5,461	14,366	7,569	17,930	12,632	26,423	<sup>4</sup> 499	10,393
<b>Percent of total</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>(X)</b>	<b>100.0</b>
Lowest ten.....	6.1	4.2	5.9	5.4	4.4	3.8	(X)	3.6
Second ten.....	9.4	6.2	8.0	4.9	5.9	3.6	(X)	3.1
Third ten.....	15.1	18.1	14.4	16.0	10.8	8.3	(X)	7.4
Fourth ten.....	23.0	24.7	23.5	23.4	24.1	27.4	(X)	31.9
Highest ten.....	46.3	46.8	48.2	50.4	54.8	56.9	(X)	54.1

X Not applicable. <sup>1</sup> Gross receipts from transportation (including consolidated subsidiaries) for year.<sup>2</sup> Total assets employed in business, net of depreciation. <sup>3</sup> Capital stock, surplus, and retained earnings.<sup>4</sup> Loss.Source: Fortune, New York, N.Y.; adapted from *The Fortune Directory*. (Copyright, 1971, by Time Inc.)

## No. 835. HIGHWAY CONSTRUCTION—CONTRACTS AWARDED: 1947 TO 1970

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Covers federally and State owned highways only; includes force-account construction authorized to start]

OWNERSHIP AND SOURCE OF FUNDS	1947	1950	1955	1960	1965	1966	1967	1968	1969	1970
<b>Total</b> .....	<b>917</b>	<b>1,528</b>	<b>2,619</b>	<b>4,030</b>	<b>4,935</b>	<b>5,459</b>	<b>5,522</b>	<b>5,305</b>	<b>6,625</b>	<b>6,520</b>
Federally owned highways.....	25	36	59	120	135	127	78	84	38	52
State owned highways.....	892	1,492	2,560	3,901	4,800	5,332	5,444	5,220	6,587	6,468
Federally aided projects:										
Total value.....	635	798	1,256	3,097	3,896	4,173	4,112	3,711	5,048	4,877
Federal funds.....	320	415	667	2,215	2,976	3,131	3,077	2,766	3,784	3,619
Independent State projects:										
Total value.....	257	694	1,304	804	904	1,150	1,332	1,610	1,539	1,591
Toll facilities.....	(NA)	228	695	165	49	99	213	63	78	40

NA Not available.

Source: Dept. of Commerce, Bureau of the Census. In Dept. of Commerce, Bureau of Domestic Commerce; *Construction Review*.

### No. 836. RURAL AND MUNICIPAL HIGHWAY MILEAGE, BY GOVERNMENTAL CONTROL: 1930 TO 1969

[In thousands. As of December 31. Prior to 1960, excludes Alaska and Hawaii. Municipal roads are those within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas. All other roads are classed as rural. See *Historical Statistics, Colonial Times to 1957*, series Q 246, and, for similar but not exactly comparable data, series Q 247 and Q 251]

MILEAGE AND CONTROL	1930	1940	1950	1955	1960	1965	1966	1967	1968	1969
<b>Total mileage</b> .....	(NA)	(NA)	3,313	3,418	3,546	3,690	3,698	3,705	3,684	3,710
Rural mileage.....	3,009	2,990	2,990	3,045	3,116	3,183	3,188	3,184	3,152	3,162
Under State control.....	324	524	581	619	659	687	695	699	702	704
Under local control.....	2,685	2,466	2,326	2,333	2,345	2,346	2,333	2,321	2,275	2,275
Under Federal control.....			73	93	112	160	160	164	175	183
Municipal mileage.....	(NA)	(NA)	323	373	430	507	510	521	532	548
Under State control.....	(NA)	27	36	42	50	65	66	68	69	72
Under local control.....	(NA)	(NA)	287	331	380	442	444	453	463	476

NA Not available.

### No. 837. HIGHWAY MILEAGE OF RURAL ROADS: 1930 TO 1969

[In thousands. As of December 31. Prior to 1960, excludes Alaska and Hawaii. For definition of rural roads, see headnote, table 836. See *Historical Statistics, Colonial Times to 1957*, series Q 247-250, for similar but not exactly comparable data]

TYPE AND CONTROL	1930	1940	1950	1960	1965	1966	1967	1968	1969
<b>All rural roads</b> .....	3,009	2,990	2,990	3,116	3,183	3,188	3,184	3,152	3,162
Primary State highways.....	324	329	363	408	414	418	424	425	406
Secondary State highways.....			88	105	112	114	112	113	121
County roads under State control.....			114	136	137	138	138	139	152
County and local roads <sup>1</sup> .....	2,685	2,466	2,417	2,472	2,520	2,518	2,510	2,475	2,483
<b>Surfaced rural roads</b> .....	694	1,340	1,679	2,165	2,302	2,321	2,336	2,362	2,391
Primary State highways.....	227	302	351	399	410	414	420	421	403
Secondary State highways.....			65	73	100	108	110	108	109
County roads under State control.....			55	83	111	118	120	122	135
County and local roads <sup>1</sup> .....	467	918	1,172	1,555	1,666	1,677	1,688	1,710	1,736

- Represents zero. <sup>1</sup> Includes mileage in national and State parks, forests, reservations, etc., not included as part of State or local systems.

Source of tables 836 and 837: Dept. of Transportation, Federal Highway Administration; annual report, *Highway Statistics*.

### No. 838. MILEAGE AND COST OF DESIGNATED FEDERAL-AID HIGHWAY SYSTEMS: 1930 TO 1970

[Prior to 1960, excludes Alaska; includes Puerto Rico. See also *Historical Statistics, Colonial Times to 1957*, series Q 261-264]

YEAR	MILES OF HIGHWAY (1,000)		COST <sup>2</sup> (mil. dol.)			YEAR	MILES OF HIGHWAY (1,000)		COST <sup>2</sup> (mil. dol.)		
	Total exist-ent <sup>1</sup>	Com-pleted during year <sup>2</sup>	Total	Federal funds	State funds		Total exist-ent <sup>1</sup>	Com-pleted during year <sup>2</sup>	Total	Federal funds	State funds
1930.....	193	10	237	100	137	1964.....	901	19	4,560	3,385	1,175
1935.....	214	13	242	218	24	1965.....	909	17	4,569	3,430	1,139
1940.....	234	12	269	150	119	1966.....	911	16	5,362	4,151	1,211
1945.....	233	3	101	76	25	1967.....	911	14	5,178	4,039	1,139
1950.....	641	20	753	390	364	1968.....	911	12	4,132	3,167	965
1955.....	742	23	1,287	666	621	1969.....	915	11	4,826	3,706	1,120
1960.....	867	21	3,264	2,273	992	1970.....	(NA)	11	4,625	3,515	1,110
1963.....	892	20	3,790	2,767	1,023						

NA Not available.

<sup>1</sup> Through 1945, total existing mileage of Federal-aid primary system; beginning 1950, includes secondary system. Through 1955, data as of June 30; thereafter, as of Dec. 31.

<sup>2</sup> Basis. Beginning 1935, includes money spent on secondary highways.

Source: Dept. of Transportation, Federal Highway Administration; annual report, *Highway Statistics* and releases.

## No. 839. MUNICIPAL AND RURAL HIGHWAY MILEAGE—STATES: 1969

[As of December 31. For definition of municipal and rural roads, see headnote, table 836. Compiled for latest available year from reports of State authorities and planning survey data]

STATE	Total municipal and rural	Municipal	RURAL					
			Total	Type		Governmental control		
				Surfaced	Nonsurfaced	State <sup>1</sup>	Local	Federal <sup>2</sup>
<b>United States.....</b>	<b>3,710,299</b>	<b>548,573</b>	<b>3,161,726</b>	<b>2,391,325</b>	<b>770,401</b>	<b>704,341</b>	<b>2,274,709</b>	<b>182,676</b>
Alabama.....	78,080	11,403	66,677	59,547	7,130	19,877	46,800	-
Alaska.....	7,123	693	6,430	3,047	3,383	4,381	1,507	542
Arizona.....	41,773	6,166	35,607	14,999	20,608	5,212	17,465	12,930
Arkansas.....	78,861	8,698	70,163	51,274	18,889	12,913	55,307	1,943
California.....	162,223	44,080	118,143	70,053	42,090	13,830	70,955	33,349
Colorado.....	81,999	7,108	74,891	42,819	32,072	8,282	66,568	51
Connecticut.....	18,251	12,006	6,245	5,259	86	1,511	3,834	-
Delaware.....	4,847	1,401	3,446	3,438	8	3,446	-	-
Dist. of Columbia.....	1,086	1,086	(x)	(x)	(x)	(x)	(x)	(x)
Florida.....	87,654	19,979	67,675	42,903	24,772	16,800	49,823	1,052
Georgia.....	98,901	14,507	84,394	55,495	28,899	15,444	68,608	342
Hawaii.....	3,512	964	2,548	2,370	169	884	1,573	91
Idaho.....	56,065	2,912	52,153	27,738	24,415	4,730	26,372	21,051
Illinois.....	128,388	26,805	102,583	96,061	6,522	13,219	89,364	-
Indiana.....	90,957	12,713	78,244	74,142	4,102	10,305	67,939	-
Iowa.....	112,320	12,769	99,551	92,831	6,720	9,149	90,376	96
Kansas.....	134,117	10,830	123,287	87,645	35,642	10,026	113,261	26
Kentucky.....	69,615	5,366	64,249	53,726	10,523	23,821	39,992	436
Louisiana.....	52,512	10,424	42,088	37,139	4,949	14,266	27,536	286
Maine.....	21,341	2,388	18,953	17,341	1,612	10,958	7,833	162
Maryland.....	26,114	4,097	22,017	21,962	55	4,933	16,939	145
Massachusetts.....	28,897	21,530	7,368	6,946	412	1,214	6,095	49
Michigan.....	114,562	10,795	94,767	77,698	17,069	7,972	86,793	2
Minnesota.....	127,578	16,796	110,782	98,818	11,964	11,476	97,458	1,848
Mississippi.....	60,655	6,435	60,220	57,658	2,562	9,735	49,956	529
Missouri.....	114,816	14,945	99,871	92,630	7,241	30,092	69,105	674
Montana.....	73,253	2,325	75,578	39,171	36,757	11,753	53,492	10,683
Nebraska.....	101,749	6,350	95,399	69,289	26,110	9,541	85,296	562
Nevada.....	45,829	2,022	46,807	13,762	33,045	6,146	40,660	1
New Hampshire.....	14,785	4,736	10,049	7,901	2,148	3,049	6,880	120
New Jersey.....	31,679	16,493	15,086	14,830	256	1,804	13,277	5
New Mexico.....	67,874	4,537	63,037	16,187	46,850	11,596	45,862	5,579
New York.....	104,716	21,276	83,440	79,451	3,989	14,036	69,369	35
North Carolina.....	85,460	13,569	71,891	64,750	7,135	70,078	-	1,813
North Dakota.....	106,071	3,094	103,677	65,018	38,559	6,512	95,788	1,277
Ohio.....	108,644	23,311	85,333	83,691	1,642	16,720	68,613	-
Oklahoma.....	107,809	13,677	94,132	65,996	28,136	11,390	82,712	30
Oregon.....	93,139	6,150	86,989	52,489	34,500	8,962	35,004	43,023
Pennsylvania.....	114,683	23,478	91,205	73,040	18,165	44,180	46,303	722
Rhode Island.....	5,397	4,362	1,035	975	60	514	521	-
South Carolina.....	59,825	6,678	53,147	33,474	19,673	30,923	21,731	493
South Dakota.....	84,355	2,958	81,397	56,145	25,252	8,644	71,080	1,673
Tennessee.....	77,495	9,370	68,119	66,261	1,858	8,146	58,766	1,207
Texas.....	243,450	45,185	198,265	134,322	63,943	60,385	136,937	943
Utah.....	39,439	4,363	35,076	18,116	16,960	4,671	21,298	9,107
Vermont.....	14,320	946	13,374	11,414	1,960	2,468	10,773	133
Virginia.....	60,705	8,206	52,499	51,324	1,175	49,652	805	2,042
Washington.....	74,570	9,940	64,630	51,816	12,814	10,940	39,537	14,153
West Virginia.....	35,820	3,557	32,263	22,853	9,410	31,299	-	964
Wisconsin.....	102,299	13,900	88,399	83,051	5,348	10,760	77,560	79
Wyoming.....	40,486	1,279	39,207	16,445	22,762	5,687	20,996	12,524

- Represents zero. X Not applicable.

<sup>1</sup> Includes 22,558 miles of State park, forest, institutional, and other roads, and 3,167 miles of toll facilities that are not a part of the State highway system. Also includes mileage of county roads under State control in all counties of Delaware and West Virginia; 10 counties in Alabama; all but 2 counties in Virginia; some counties in Nevada; farm-to-market mileage in Louisiana; and the State-aid system in Maine.

<sup>2</sup> Mileage in Federal parks, forests, and reservations that are not a part of the State highway system.

Source: Dept. of Transportation, Federal Highway Administration; annual report, *Highway Statistics, 1969*.

# No. 840. FEDERAL-AID PAYMENTS TO STATE AND LOCAL GOVERNMENTS FOR HIGHWAY CONSTRUCTION—STATES AND PUERTO RICO: 1960 TO 1970

[In millions of dollars. For years ending June 30]

STATE OR OTHER AREA	1960	1965	1969	1970	STATE OR OTHER AREA	1960	1965	1969	1970
<b>Total</b> .....	<b>2,942</b>	<b>4,018</b>	<b>4,274</b>	<b>4,524</b>	Mont.....	31	59	53	62
<b>U.S.</b> .....	<b>2,935</b>	<b>4,011</b>	<b>4,268</b>	<b>4,520</b>	Nebr.....	27	37	30	38
Ala.....	51	91	76	82	Nev.....	10	42	27	35
Alaska.....	16	53	42	40	N.H.....	20	16	20	21
Ariz.....	31	66	87	68	N.J.....	53	65	119	110
Ark.....	32	39	43	43	N. Mex.....	26	48	48	55
Calif.....	172	324	307	503	N.Y.....	217	198	253	256
Colo.....	36	61	68	57	N.C.....	59	51	59	62
Conn.....	29	48	60	65	N. Dak.....	33	31	21	24
Del.....	8	17	10	10	Ohio.....	159	186	249	243
D.C.....	16	26	32	32	Okl.....	33	58	50	56
Fla.....	75	88	72	69	Oreg.....	54	77	55	70
Ga.....	61	81	76	64	Pa.....	117	142	243	238
Hawaii.....	4	10	29	33	R.I.....	13	25	21	28
Idaho.....	26	40	32	37	S.C.....	47	35	37	35
Ill.....	200	209	230	185	S. Dak.....	26	45	33	39
Ind.....	74	93	142	100	Tenn.....	67	108	98	102
Iowa.....	68	53	52	63	Tex.....	198	216	197	227
Kans.....	51	51	49	50	Utah.....	34	61	53	71
Ky.....	66	60	127	96	Vt.....	17	25	34	28
La.....	70	103	106	110	Va.....	53	163	132	112
Maine.....	20	24	19	21	Wash.....	44	75	83	93
Md.....	27	50	52	66	W. Va.....	47	56	96	116
Mass.....	67	78	107	94	Wis.....	61	54	42	42
Mich.....	96	133	153	160	Wyo.....	26	48	43	38
Minn.....	65	105	96	108	Undist. to States, etc.	28	17	-	-
Miss.....	36	58	45	57	P.R.....	7	7	6	4
Mo.....	70	114	84	106					

- Represents zero.

<sup>1</sup> Includes following amounts for 1969 and 1970, respectively, in millions of dollars; Appalachian highways, 112 and 129; highway beautification, 15 and 8; landscaping and scenic enhancement, 5 and 3; and highway safety, 18 and 48. <sup>2</sup> Deduct.

Source: Dept. of the Treasury; for 1960 and 1965, *Annual Report of the Secretary of the Treasury on the State of the Finances*; thereafter, *Federal Aid to States*.

# No. 841. PUBLIC HIGHWAY DEBT—LONG-TERM HIGHWAY OBLIGATIONS OF STATE AND LOCAL GOVERNMENTS: 1950 TO 1971

[In millions of dollars. State data are for calendar years; local data are for varying fiscal years. Prior to 1960, State obligations include interest obligations except as noted. Municipal See Historical

ITEM	1950	1955	1960	1965	1967	1968	1969	1970 (prel.)	1971 est.
<b>Total debt issued</b> <sup>1</sup> .....	<b>652</b>	<b>1,174</b>	<b>1,206</b>	<b>1,070</b>	<b>1,633</b>	<b>1,991</b>	<b>2,022</b>	<b>1,759</b>	<b>2,147</b>
State obligations.....	400	646	680	586	1,012	1,377	1,351	1,185	1,527
County and local rural obligations.....	90	205	190	169	194	241	241	239	240
Municipal obligations.....	162	323	336	315	427	373	430	335	380
<b>Total debt redeemed</b> <sup>2</sup> .....	<b>322</b>	<b>421</b>	<b>616</b>	<b>855</b>	<b>965</b>	<b>1,071</b>	<b>1,122</b>	<b>1,181</b>	<b>1,211</b>
State obligations.....	143	191	300	459	540	657	705	762	790
County and local rural obligations.....	83	89	96	123	136	136	137	137	137
Municipal obligations.....	96	141	220	273	289	278	280	282	284
<b>Total debt outstanding</b> .....	<b>4,436</b>	<b>9,658</b>	<b>13,166</b>	<b>15,216</b>	<b>16,749</b>	<b>17,672</b>	<b>18,572</b>	<b>19,150</b>	<b>20,086</b>
State obligations.....	2,060	6,619	9,384	10,905	12,014	12,734	13,380	13,803	14,540
County and local rural obligations.....	872	1,027	1,280	1,363	1,450	1,554	1,658	1,760	1,863
Municipal obligations.....	1,468	2,012	2,502	3,048	3,285	3,384	3,534	3,587	3,683

<sup>1</sup> Excludes refunding issues.

<sup>2</sup> Excludes redemptions by refunding.

Source: Dept. of Transportation, Federal Highway Administration; releases.

# No. 842. DESIGNATED FEDERAL-AID HIGHWAY SYSTEMS, 1969, AND PROJECTS, 1970—STATES AND PUERTO RICO

[Money figures in millions of dollars. Systems as of December 31, and projects as of June 30. Projects comprise those financed from the Federal-aid primary, secondary, urban, rural, TOPICS (urban traffic operations program to increase capacity and safety), and interstate funds. See text, pp. 523 and 524]

STATE OR OTHER AREA	SYSTEMS (miles), 1969				PROJECTS, 1970 <sup>1</sup>					
	Primary			Secondary	Completed during fiscal year			Under construction		
	Total	National system of interstate highways			Miles	Total cost	Federal funds	Miles	Total cost	Federal funds
		Total	Open to traffic							
Total.....	270,071	42,545	29,638	644,481	10,935	4,354.5	3,267.0	20,381	14,547.4	11,256.6
United States.....	269,516	42,545	29,638	643,387	10,923	4,349.2	3,264.4	20,341	14,508.9	11,238.3
Alabama.....	6,585	898	572	15,895	394	85.6	66.2	381	344.1	278.0
Alaska.....	3,337	-	-	2,162	80	40.6	38.2	219	86.4	80.8
Arizona.....	3,633	1,172	840	3,989	184	51.5	44.5	206	121.7	109.3
Arkansas.....	4,121	519	438	14,267	284	62.2	42.2	368	119.6	82.1
California.....	0,788	2,288	1,605	14,881	317	300.9	227.1	495	1,357.4	1,124.8
Colorado.....	4,610	974	680	4,277	254	67.9	54.0	240	160.8	130.0
Connecticut.....	1,360	347	261	1,250	11	56.5	35.1	19	172.7	133.7
Delaware.....	696	41	29	1,470	20	11.0	7.9	37	66.5	47.9
Dist. of Columbia.....	168	30	10	127	4	11.3	8.8	11	198.9	162.7
Florida.....	5,771	1,397	760	15,057	170	88.3	68.6	257	193.9	134.1
Georgia.....	9,120	1,149	722	20,598	257	105.8	79.4	742	357.7	265.9
Hawaii.....	1,608	52	17	511	13	51.1	41.0	38	150.4	131.4
Idaho.....	3,341	612	469	5,809	286	31.6	25.3	319	91.8	76.0
Illinois.....	12,436	1,725	1,151	14,864	486	294.1	219.9	761	439.2	324.6
Indiana.....	5,983	1,130	856	10,011	185	156.2	110.3	191	239.0	190.6
Iowa.....	10,374	781	520	33,308	336	50.4	38.8	1,042	190.0	132.6
Kansas.....	7,844	822	673	24,415	447	69.8	49.6	881	151.0	102.9
Kentucky.....	4,600	739	575	15,166	153	91.0	66.8	115	243.0	177.7
Louisiana.....	3,448	718	330	8,840	120	173.1	138.9	234	485.0	403.5
Maine.....	1,970	312	275	2,527	47	20.8	14.1	93	56.4	40.7
Maryland.....	2,612	354	302	7,775	60	62.3	48.6	149	242.3	192.8
Massachusetts.....	2,400	469	401	2,284	26	63.9	52.2	76	406.6	306.1
Michigan.....	7,012	1,175	929	27,065	235	148.0	113.2	556	530.4	410.7
Minnesota.....	8,354	914	454	30,910	704	99.9	70.8	1,291	391.9	308.7
Mississippi.....	6,256	678	509	16,523	244	47.7	34.6	663	211.9	159.6
Missouri.....	8,913	1,147	839	23,230	209	81.8	57.3	407	397.0	301.1
Montana.....	6,143	1,186	618	5,837	218	49.2	39.0	502	183.3	155.4
Nebraska.....	5,996	481	373	17,960	289	35.4	24.5	598	103.3	74.1
Nevada.....	2,295	534	404	3,746	50	17.2	15.8	80	96.5	80.9
New Hampshire.....	1,254	215	172	1,743	27	24.6	19.7	52	49.3	34.6
New Jersey.....	2,343	413	194	2,240	43	96.2	60.6	94	629.4	472.9
New Mexico.....	3,991	998	740	5,997	178	54.4	45.5	206	91.1	78.2
New York.....	11,910	1,376	1,095	19,387	135	197.3	129.7	256	900.2	632.4
North Carolina.....	4,780	839	472	20,424	87	44.2	30.0	341	305.2	208.8
North Dakota.....	4,713	571	416	13,574	488	17.6	11.8	1,323	75.0	54.4
Ohio.....	8,451	1,534	1,278	21,715	210	266.2	202.7	300	572.5	435.9
Oklahoma.....	7,818	809	650	14,575	360	67.5	46.2	374	201.6	154.5
Oregon.....	4,084	735	643	8,416	67	65.4	51.9	84	219.2	190.1
Pennsylvania.....	8,590	1,575	1,253	13,769	124	161.1	120.1	461	1,058.0	783.2
Rhode Island.....	504	100	59	577	26	33.3	25.5	18	44.8	32.4
South Carolina.....	5,350	757	457	21,035	253	27.7	19.4	928	136.8	98.2
South Dakota.....	5,936	679	453	13,500	438	42.3	34.1	650	76.0	58.6
Tennessee.....	6,902	1,044	687	11,957	355	82.0	62.6	530	305.2	248.7
Texas.....	17,585	3,176	2,242	40,773	950	271.1	194.3	1,322	607.2	450.7
Utah.....	2,518	935	349	4,018	182	60.3	53.8	334	152.2	139.2
Vermont.....	1,593	320	182	1,937	33	14.1	11.0	132	82.3	66.7
Virginia.....	4,607	1,071	712	10,952	195	121.7	94.3	354	401.4	331.1
Washington.....	3,922	763	559	12,269	177	123.2	105.4	176	221.6	185.6
West Virginia.....	2,494	515	276	10,856	25	40.0	31.7	127	391.6	322.1
Wisconsin.....	6,562	562	455	10,189	307	80.6	54.4	417	124.5	74.0
Wyoming.....	3,817	914	682	2,730	182	33.1	27.3	293	66.5	57.4
Puerto Rico.....	555	-	-	1,094	12	5.4	2.6	40	38.5	18.3

— Represents zero.

<sup>1</sup> Excludes highway projects financed with 1½ percent Federal-aid highway funds available pursuant to the Federal-Aid Highway Act of 1968. Total cost, \$61.4 million Federal funds; underway, \$245.9 million total cost.

Source: Dept. of Transportation, Federal Highway Administration; annual report, *Federal Aid and Allied Highway Programs*, 1970.

# NO. 843. DISBURSEMENTS OF STATE HIGHWAY FUNDS—TOTAL 1950 TO 1969, AND BY PURPOSE, 1969, STATES

[In millions of dollars. Comprises disbursements, whether from current revenues or proceeds of loans, for construction, maintenance, interest and principal payments purposes. Includes transactions by State toll authority and nonhighway purposes, and bonds redeemed to 1967, series Q 273-278]

STATE	1950	1955	1960	1965	1968	Total	1969			
							For State-administered highways			For county and local roads and streets <sup>3</sup>
							Capital outlay, roads and bridges <sup>1</sup>	Maintenance and traffic services <sup>1</sup>	Other <sup>2</sup>	
United States <sup>4</sup> ...	3,562	6,034	8,957	11,465	14,254	14,919	7,876	1,723	2,688	2,632
Alabama.....	49	87	174	228	250	267	127	25	40	75
Alaska.....	(NA)	(NA)	19	71	70	75	45	13	16	1
Arizona.....	20	33	72	108	144	132	75	10	16	31
Arkansas.....	46	55	95	119	151	153	86	19	22	26
California.....	268	558	786	1,110	1,321	1,376	782	82	181	331
Colorado.....	38	56	91	129	143	143	79	17	17	30
Connecticut.....	38	79	161	216	256	256	97	35	109	15
Delaware.....	32	28	36	87	75	87	44	11	30	2
Dist. of Columbia.....	11	24	48	42	66	61	-	-	12	49
Florida.....	93	152	316	316	332	349	198	38	93	20
Georgia.....	74	109	167	208	260	254	114	28	41	71
Hawaii.....	(NA)	(NA)	23	35	63	63	42	4	7	10
Idaho.....	19	27	44	66	67	75	41	10	8	16
Illinois.....	113	229	475	471	648	676	279	66	98	233
Indiana.....	69	200	241	286	375	340	168	39	46	97
Iowa.....	79	109	160	193	227	249	104	24	19	102
Kansas.....	50	110	109	134	147	153	60	29	29	26
Kentucky.....	67	102	138	223	362	356	210	51	75	20
Louisiana.....	71	115	204	240	273	288	163	36	52	37
Maine.....	24	65	62	80	80	88	38	25	21	4
Maryland.....	84	138	166	217	280	331	114	21	105	91
Massachusetts.....	98	203	237	284	323	347	152	35	148	12
Michigan.....	106	249	418	427	519	551	194	43	116	198
Minnesota.....	65	101	167	230	294	302	172	39	19	72
Mississippi.....	42	75	110	160	162	172	79	11	29	53
Missouri.....	53	105	165	241	255	316	207	54	33	22
Montana.....	22	30	54	86	84	100	77	0	5	9
Nebraska.....	36	59	95	97	107	110	50	14	10	36
Nevada.....	9	15	22	58	53	59	37	7	9	6
New Hampshire.....	14	30	50	51	62	67	33	16	16	2
New Jersey.....	188	303	221	291	500	520	310	48	139	23
New Mexico.....	26	39	64	101	98	94	60	16	10	8
New York.....	304	471	652	752	1,205	1,179	681	151	251	146
North Carolina.....	136	141	179	219	352	337	174	71	81	11
North Dakota.....	22	28	50	51	59	56	27	6	5	18
Ohio.....	147	383	523	661	808	842	437	61	154	190
Oklahoma.....	73	113	134	179	213	222	109	21	32	60
Oregon.....	50	79	113	185	159	187	70	28	21	59
Pennsylvania.....	279	350	423	667	929	1,035	603	166	199	67
Rhode Island.....	14	30	42	62	84	68	46	7	14	1
South Carolina.....	46	57	109	114	130	125	66	30	17	12
South Dakota.....	20	34	57	68	76	73	42	8	10	13
Tennessee.....	79	108	187	238	250	286	140	22	36	79
Texas.....	178	282	493	513	597	664	462	92	71	39
Utah.....	15	23	49	89	93	107	84	10	9	4
Vermont.....	10	17	43	53	75	70	41	10	12	7
Virginia.....	76	112	211	353	368	385	229	63	74	19
Washington.....	78	127	171	235	308	329	144	40	60	85
West Virginia.....	51	64	110	169	194	230	164	23	43	-
Wisconsin.....	98	190	171	189	243	248	107	31	22	88
Wyoming.....	14	22	44	65	67	66	46	8	6	6

- Represents zero. NA Not available.

<sup>1</sup> Includes some administration, engineering, and miscellaneous disbursements. <sup>2</sup> Comprises following disbursements, in millions of dollars: Administration and miscellaneous, 681; highway law enforcement, 703; bond interest, 525; and bond redemption, 779. <sup>3</sup> Expenditures on county roads under State control in Ala. (10 counties), Del., N.C., Va. (all except 2 counties), and W. Va. included with those for State-administered highways. <sup>4</sup> Prior to 1960, excludes Alaska and Hawaii.

Source: Dept. of Transportation, Federal Highway Administration; annual report, *Highway Statistics*.



## No. 844. FEDERAL AND STATE MOTOR-FUEL TAX—STATES: 1940 to 1970

[Cents per gallon. Where 2 figures appear in a cell, the former is tax in effect at beginning of year, the latter is tax at end of year. See also *Historical Statistics, Colonial Times to 1957*, series Q 328-329]

STATE	1940	1950	1950	1955	1970 <sup>1</sup>	STATE	1940	1950	1960	1965	1970 <sup>1</sup>
Federal tax.....	1-1.5	1.5	4	4	4	Mississippi.....	6	6-7	4 7	4 7	4 7-8
State average <sup>2</sup> .....	3.96	4.65	5.94	6.41	7.01	Missouri.....	2	2	3	5	5
Alabama.....	6	6	7	7	7	Montana.....	5	6	4 6	4 6	4 7
Alaska.....	(3)	(3)	5-7	8	8	Nebraska.....	5	6-5	7	7-7.5	7.5-8.5
Arizona.....	5	5	5	6-7	7	Nevada.....	4	4.5	6	6	6
Arkansas.....	6.5	6.5	6.5	4 6.5-7.5	4 7.5	New Hampshire.....	4	4	7	7	7
California.....	3	4.5	4 6	7-8-7	5 7	New Jersey.....	3	3	5	6	7
Colorado.....	4	6	6	6-7	7	New Mexico.....	5	7	6	6	7
Connecticut.....	3	4	6	6	8	New York.....	4	4	4 6	4 6	4 7
Delaware.....	4	5	5	6-7	7	North Carolina.....	6	7	7	7	9
Dist. of Columbia.....	2	4	6	6	7	North Dakota.....	4	4	6	6	7
Florida.....	7	7	7	7	7	Ohio.....	4	4	7	7	7
Georgia.....	6	7	6.5	6.5	6.5	Oklahoma.....	4	6.5	6.5	6.5	6.5
Hawaii.....	4	4	4.5	4.5	4.5	Oregon.....	5	6	6	6	7
Idaho.....	5.1	6	6	6	7	Pennsylvania.....	4	5	5	7	7-8
Illinois.....	3	3	5	5	7.5	Rhode Island.....	3	4	6-7	7	8
Indiana.....	4	4	6	6	8	South Carolina.....	6	6-7	7	7	7
Iowa.....	3	4	4 6	4 6-7	4 7	South Dakota.....	4	4	4 6	4 6	5 7
Kansas.....	3	5	4.5	4.5	4 5 7	Tennessee.....	7	7	7	4 7	4 7
Kentucky.....	5	7	7 7	7 7	7	Texas.....	4	4	4.5	4.5	4.5
Louisiana.....	7	9	7	7	8	Utah.....	4	4	6	6	7
Maine.....	4	6	7	7	8	Vermont.....	4	5	6.5	6.5	8
Maryland.....	4	5	6	7	7	Virginia.....	5	6	16-7	7 7	7 7
Massachusetts.....	3	3	5.5	5.5-6.5	6.5	Washington.....	5	6.5	6.5	7.5	9
Michigan.....	3	3	6	6	7	West Virginia.....	5	5	7	7	7-8.5
Minnesota.....	4-3	5	5	6	7	Wisconsin.....	4	4	6	6	7
						Wyoming.....	4	4	4.5	4.5	5 7

<sup>1</sup> In effect Dec. 31.

<sup>2</sup> Weighted average, based on net gallons taxed. Prior to 1960, excludes Alaska and Hawaii.

<sup>3</sup> No tax.

<sup>4</sup> Tax on diesel fuel, and usually other special fuels for highway vehicles, is higher than gasoline tax shown.

<sup>5</sup> State tax rate on liquefied petroleum gas per gallon is 6 cents in California and South Dakota, 8 cents in Mississippi, and 5 cents in Kansas.

<sup>6</sup> State tax rate per gallon is 8 cents in Hawaii County and 5 cents in other counties.

<sup>7</sup> Trucks or combinations with more than 2 axles pay motor-fuel tax rate of 0 cents per gallon in Kentucky and Virginia. (Prior to July 1960,

<sup>8</sup> Diesel fuel and liquefied

per ton-mile.

Source: Dept. of Transportation, Federal Highway Administration; annual report, *Highway Statistics*.

## No. 845. MOTOR-VEHICLE TRAVEL, BY TYPE OF VEHICLE: 1940 to 1969

[In millions of vehicle-miles, except averages. Prior to 1960, excludes Alaska and Hawaii. Estimates based on automatic traffic recorder data. Urban travel includes all travel in municipalities and most travel in urbanized areas. All other travel is classed as rural. See also *Historical Statistics, Colonial Times to 1957*, series Q 321-327]

ITEM	1940	1950	1955	1960	1965	1967	1968	1969 est.
<b>Total travel.....</b>	<b>302,188</b>	<b>458,246</b>	<b>603,434</b>	<b>718,845</b>	<b>887,812</b>	<b>961,553</b>	<b>1,015,649</b>	<b>1,070,575</b>
<b>TYPE OF VEHICLE</b>								
Passenger vehicles.....	252,257	367,694	492,047	502,436	716,376	779,097	818,098	863,895
Rural.....	121,988	183,218	265,667	305,538	335,983	361,888	378,062	395,620
Urban.....	130,269	184,476	226,380	286,898	380,393	417,209	440,936	468,275
Passenger cars <sup>1</sup> .....	249,600	363,613	487,540	588,083	711,594	774,203	814,030	858,858
Rural.....	120,540	181,095	263,088	303,283	333,412	359,228	375,338	392,843
Urban.....	129,060	182,518	224,452	284,800	378,182	414,975	438,692	466,015
Buses.....	2,657	4,081	4,507	4,353	4,782	4,894	4,968	5,037
Rural.....	1,448	2,123	2,579	2,255	2,571	2,660	2,724	2,777
Urban.....	1,209	1,958	1,928	2,098	2,211	2,234	2,244	2,260
Trucks and combinations.....	49,931	90,552	111,387	126,409	171,436	182,456	196,651	206,680
Rural.....	30,207	56,780	70,486	81,722	102,789	114,172	124,298	130,408
Urban.....	18,724	33,772	40,901	44,687	68,647	68,284	72,353	76,272
<b>AVERAGE MILES PER VEHICLE</b>								
Passenger vehicles.....	9,120	9,078	9,400	9,474	9,310	9,420	9,507	9,650
Passenger cars <sup>1</sup> .....	9,080	9,020	9,359	9,446	9,286	9,399	9,458	9,633
Buses.....	18,580	20,910	17,688	16,004	15,215	14,484	14,122	13,826
Trucks and combinations.....	10,626	10,776	10,697	10,583	11,587	11,268	11,571	11,565

<sup>1</sup> Includes taxicabs and motorcycles.

Source: Dept. of Transportation, Federal Highway Administration; annual report, *Highway Statistics*.

## No. 846. MOTOR VEHICLES—SUMMARY STATISTICS: 1950 TO 1970

[Number in thousands; money figures in millions of dollars. Excludes Alaska and Hawaii, except as noted]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
SALES, EXPORTS, IMPORTS, AND SCRAPPAGE <sup>1</sup>								
Passenger car factory sales.....	6,666	7,920	6,675	6,306	7,437	8,822	8,224	6,547
4-door sedans.....	3,247	3,044	2,697	2,744	1,851	2,052	1,811	1,486
2-door sedans, coaches and coupes <sup>2</sup> .....	2,794	1,691	1,094	793	395	499	603	709
2-door and 4-door "hard-tops".....	267	2,169	1,517	4,261	4,153	5,053	4,782	3,595
Convertibles (except "hard-top").....	208	240	305	509	306	277	202	92
Station wagons <sup>3</sup> .....	142	759	1,059	1,001	727	938	821	662
Chassis.....	0	18	3	7	5	3	4	2
Truck and bus factory sales.....	1,337	1,240	1,194	1,752	1,539	1,896	1,923	1,092
Passenger cars (new), exported <sup>4</sup> .....	153	254	145	205	366	415	417	359
Passenger cars (new), imported.....	21	57	444	559	1,021	1,620	1,847	2,013
Exports, value.....	794	1,367	1,411	2,197	2,888	3,628	4,069	3,871
Passenger cars (new).....	179	380	235	393	812	972	1,011	822
Trucks and buses (new).....	217	340	382	328	408	474	558	636
Rubber tires and tubes.....	47	82	77	55	41	54	63	40
Parts and access. (incl. used veh.).....	350	565	717	1,421	1,628	2,128	2,437	2,373
Imports of new passenger cars, value.....	21	69	513	640	1,695	2,782	3,355	3,719
Vehicles scrapped <sup>5</sup> .....	3,234	4,392	4,783	7,070	7,494	7,018	(NA)	(NA)
Passenger cars <sup>6</sup> .....	2,598	3,773	4,200	6,163	6,433	5,955	(NA)	(NA)
Trucks and buses <sup>6</sup> .....	636	619	583	907	1,061	1,053	(NA)	(NA)
PARTS AND CHEMICAL SHIPMENTS								
Tires, passenger car, <sup>7</sup> total.....	84,423	93,730	105,687	148,497	150,979	173,628	177,134	168,865
Original equipment.....	36,678	42,574	36,278	51,413	40,827	49,873	46,172	37,575
Replacement.....	47,103	50,189	68,475	94,893	108,499	121,088	121,112	129,795
Export.....	642	966	934	2,191	1,553	2,667	1,850	1,495
Tires, truck and bus, <sup>7</sup> total.....	15,164	14,769	13,011	20,440	21,756	25,277	27,406	25,675
Original equipment.....	4,071	4,800	3,925	6,943	6,873	8,488	9,498	8,560
Replacement.....	9,705	9,057	9,210	12,819	14,418	16,267	17,340	16,713
Export.....	788	912	776	678	465	532	569	402
Replacement automobile batteries <sup>8</sup> .....	24,442	25,828	26,329	29,510	30,092	33,793	35,250	<sup>9</sup> 37,400
Sealed-beam lamps <sup>10</sup> .....	35,776	44,911	67,416	<sup>8</sup> 85,566	<sup>8</sup> 75,106	<sup>8</sup> 88,543	<sup>8</sup> 83,000	<sup>8</sup> 70,153
Other automotive lamps <sup>10</sup> .....	251,216	331,448	323,449	<sup>8</sup> 522,608	<sup>8</sup> 517,676	<sup>8</sup> 598,399	<sup>8</sup> 617,382	<sup>8</sup> 525,862
Antifreeze <sup>11</sup> .....1,000 gal.....	(NA)	110,000	120,902	143,067	143,690	153,576	164,226	(NA)
Heavy duty brake fluid <sup>11</sup> .....1,000 gal <sup>12</sup> .....	(NA)	5,682	9,425	7,983	9,552	10,325	9,893	(NA)
SPECIAL MOTOR-VEHICLE TAXES <sup>6</sup> <sup>13</sup>								
Federal excise <sup>14</sup> .....	1,479	2,736	4,397	5,716	5,524	6,055	6,728	6,785
State motor veh. and carrier receipts <sup>15</sup> .....	948	1,483	1,920	2,512	2,894	3,161	3,508	3,853
State motor-fuel, net <sup>15</sup> .....	1,667	2,543	3,396	4,495	5,008	5,470	5,995	6,531
MOTOR VEHICLE REGISTRATIONS <sup>16</sup>								
World.....	70,424	95,896	126,908	177,993	202,922	216,608	232,029	(NA)
United States <sup>15</sup> .....	49,161	62,689	73,869	90,358	96,931	100,885	105,097	<sup>10</sup> 108,977
Other North and Central America.....	3,154	4,942	6,759	8,235	9,517	10,169	10,795	(NA)
South America.....	1,270	1,835	2,995	5,103	6,122	6,644	7,411	(NA)
Europe.....	12,529	19,611	33,751	56,483	66,977	72,191	77,755	(NA)
Africa.....	1,241	1,829	2,450	3,394	3,759	4,029	4,602	(NA)
Asia.....	1,221	2,212	3,556	9,739	14,477	17,175	20,511	(NA)
Oceania.....	1,848	2,778	3,528	4,681	5,138	5,361	5,858	(NA)

<sup>1</sup>NA. Not available.

Source: Exports and imports from Dept. of Commerce.

<sup>2</sup>Includes business coupes.<sup>3</sup>Excludes station wagons on commercial vehicle chassis.<sup>4</sup>Includes export factory sales.<sup>5</sup>Estimated. <sup>6</sup>Includes Alaska and Hawaii.<sup>7</sup>Source: The Rubber Manufacturers Association, Inc., New York, N.Y. Beginning 1965, figures for "Tires, passenger car" include motorcycle tires.<sup>8</sup>Source: Battery Council International, Burlingame, Calif. <sup>9</sup>Preliminary.<sup>10</sup>Source: Bureau of the Census.<sup>11</sup>Source: Chemical Specialties Manufacturers Association, Inc., New York, N.Y.<sup>12</sup>Figures represent fluid compounded rather than sold.<sup>13</sup>Special taxes on motor-vehicle users. Excludes income and property taxes on motor vehicle, body, parts and tire factories; garages; dealers; repair shops; termi-<sup>14</sup>Source: Dept. of the Treasury and Dept. of Commerce. <sup>15</sup>Includes tax on use of vehicles over 26,000 pounds as follows, in millions of dollar: 1968, 116; 1969, 134; and 1970, 140.<sup>16</sup>Source: Dept. of Transportation.<sup>17</sup>Includes cars, trucks, and buses. Source: Dept. of State and overseas sources.Source: Automobile Manufacturers Association, Detroit, Mich.; *Automobile Facts and Figures*. Includes data compiled from sources cited in footnotes.

## No. 847. MOTOR VEHICLES—FACTORY SALES AND REGISTRATIONS: 1900 TO 1970

[Prior to 1960, registrations exclude Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1957*, series Q 310-317]

YEAR	FACTORY SALES <sup>1</sup>							REGISTRATIONS <sup>5</sup> (1,000)				
	Number (1,000)			Wholesale value <sup>3</sup>				Total cars, trucks, buses	Passenger cars and taxis <sup>6</sup>	Trucks and buses <sup>6</sup>	Motor-cycles	
	Total cars, trucks, buses	Pas-senger cars	Trucks and buses <sup>2</sup>	Passenger cars		Trucks and buses <sup>2</sup>						
				Total (mil. dol.)	Average <sup>4</sup>	Total (mil. dol.)	Average <sup>4</sup>					
1900.....	4	4	-	5	\$1,250	-	-	8	8	-	-	
1910.....	187	181	6	215	1,188	10	\$1,667	7 470	458	10	-	
1920.....	2,227	1,906	322	1,809	949	423	1,314	7 9,251	8,131	1,108	239	
1930.....	3,363	2,787	575	1,644	590	391	680	7 26,794	23,035	3,715	108	
1940.....	4,472	3,717	755	2,371	638	568	752	7 32,525	27,466	4,987	136	
1950.....	8,003	6,666	1,337	8,468	1,270	1,708	1,277	7 40,300	40,339	8,823	454	
1960.....	7,869	6,675	1,194	12,164	1,822	2,351	1,969	73,869	61,682	12,187	570	
1965.....	11,057	9,306	1,752	18,380	1,975	3,734	2,131	90,358	75,258	15,100	1,382	
1966.....	10,329	8,598	1,731	17,554	2,042	3,953	2,284	94,193	78,354	15,839	1,753	
1967.....	8,976	7,437	1,539	15,653	2,105	3,692	2,334	96,931	80,414	16,517	1,953	
1968.....	10,718	8,822	1,896	19,352	2,194	4,670	2,463	101,039	83,693	17,346	2,101	
1969.....	10,147	8,244	1,923	18,751	2,280	4,937	2,567	105,097	86,862	18,235	2,316	
1970.....	8,239	6,547	1,692	14,500	2,215	4,500	2,660	8 108,977	8 89,861	8 19,116	8 2,514	

— Represents zero. <sup>1</sup> Beginning 1965, excludes tactical vehicles. <sup>2</sup> A substantial part of the trucks and buses reported comprises chassis without body; hence, excludes the value of bodies for these chassis. <sup>3</sup> Beginning 1940, includes value of standard equipment. <sup>4</sup> Averages do not indicate price changes since total values may reflect changes in number of makes, models, and/or body types from year to year. <sup>5</sup> Includes publicly owned vehicles. Excludes vehicles owned by military services. <sup>6</sup> Prior to 1930, buses included with passenger cars. <sup>7</sup> Total includes, components exclude, Hawaii. <sup>8</sup> Estimate.

Source: Factory sales—Automobile Manufacturers Association, Detroit, Mich.; *Automobile Facts and Figures*. Registrations—Dept. of Transportation, Federal Highway Administration; annual report, *Highway Statistics*.

## No. 848. MOTOR VEHICLES—ESTABLISHMENTS, SALES, PAYROLL, AND EMPLOYMENT FOR SELECTED KINDS OF BUSINESS: 1963 AND 1967

KIND OF BUSINESS	ESTABLISHMENTS <sup>1</sup> (1,000)		SALES OR RECEIPTS <sup>2</sup> (mil. dol.)		ANNUAL PAYROLL <sup>3</sup> (mil. dol.)		PAID EMPLOYEES <sup>4</sup> (1,000)	
	1963	1967	1963	1967	1963	1967	1963	1967
<b>RETAIL TRADE</b>								
<b>Automotive dealers</b> .....	98.5	105.5	45,376	55,631	4,111	5,257	794.2	906.6
Motor vehicle dealers—new and used cars.....	33.3	62.0	{ 37,375	{ 48,036	{ 3,826	4,232	612.1	696.3
Motor vehicle dealers—used cars only.....	28.0		{ 3,087		{ 184		44.3	
Tire, battery, and accessory dealers.....	25.9		{ 3,336		{ 474		110.5	
Misc. automotive dealers.....	11.3	14.8	1,579	2,760	127	236	27.2	42.2
<b>Gasoline service stations</b> .....	211.5	216.1	17,760	22,709	1,510	1,898	519.8	575.2
<b>WHOLESALE TRADE</b>								
<b>Motor vehicles and auto equipment</b> .....	29.4	31.2	36,789	46,122	1,671	2,127	295.7	341.1
Automobiles and other motor vehicles.....	4.6	4.8	25,958	31,330	507	641	79.9	91.9
Automotive equipment.....	22.7	23.3	8,644	11,614	1,019	1,261	191.2	214.1
Tires and tubes.....	2.2	3.1	2,187	3,178	146	225	24.6	35.1
<b>SERVICES</b>								
<b>Auto repairs, services, and garages</b> .....	139.6	139.2	5,444	7,028	1,135	1,468	288.0	316.2
Automobile repair shops.....	114.5	109.9	3,588	4,085	778	943	184.4	187.9
Automobile parking.....	11.3	10.6	416	484	114	129	34.0	33.5
Car, truck rental and leasing; other serv.....	13.0	18.7	1,440	2,489	242	396	68.7	95.0
<b>MANUFACTURING</b>								
<b>Motor vehicles and equipment</b> .....	2.8	2.7	12,781	13,666	5,194	5,930	694	739
Motor vehicles.....	2.0	{ 0.2	{ 12,346	{ 7,354	{ 4,947	{ 2,700	{ 650	{ 321
Motor vehicle parts and accessories.....		{ 1.7		{ 5,712		{ 2,891		{ 365
Truck and bus bodies.....		{ 0.6		{ 230		{ 133		{ 25
Truck trailers.....	0.2	0.2	206	260	113	147	10	23

<sup>1</sup> As of Dec. 31, except for manufacturing, which is for the year. <sup>2</sup> Wholesale trade, represents only establishments employing one or more workers at any time during the year. <sup>3</sup> For manufacturing, data represent value added in manufacturing.

<sup>4</sup> Comprises salaries, wages, vacation pay, and other remuneration. <sup>5</sup> Work week ended nearest Nov. 15, 1963, and week including Mar. 12, 1967, except quarterly average for manufacturing.

<sup>6</sup> Data corrected only at level significantly affected; therefore, breakdown will not add to total.

Source: Dept. of Commerce, Bureau of the Census; 1967 *Census of Business*, Vols. II, VI, and VIII and 1967 *Census of Manufactures*, MC67(1)-1 and MC67(2)-37A.

# No. 849. MOTOR-VEHICLE REGISTRATIONS, 1950 TO 1970, AND DRIVERS LICENSES, 1969, BY STATES

[In thousands, except as indicated. Motor-vehicle registrations are for all vehicles, including publicly owned vehicles; for uniformity, figures have been adjusted to a calendar year basis in States differ; figures represent net registrations where possible, excluding registrations.]

STATE	AUTOMOBILES, TRUCKS, AND BUSES							Motor-cycles (incl. official), <sup>1</sup> 1970	DRIVERS LICENSES, 1969		
	1950	1955	1960	1965	1970				Total <sup>2</sup>	Percent	
					Total	Private and commercial				Male drivers	Drivers under 25 years
						Auto-mob-iles (incl. taxicabs)	Trucks and buses				
U.S. <sup>3</sup>	49,300	62,870	73,869	90,358	108,436	88,841	17,978	2,814.7	108,295	57.6	(NA)
Ala.	680	1,041	1,282	1,683	1,906	1,553	385	43.1	1,687	57.6	(NA)
Alaska	(NA)	(NA)	81	109	139	93	40	8.5	126	56.8	22.4
Ariz.	271	415	624	825	1,093	822	250	34.3	1,045	55.4	26.0
Ark.	477	584	708	914	1,043	724	305	22.0	1,035	59.9	21.0
Calif.	4,620	6,189	7,799	9,989	11,901	9,821	1,906	567.8	11,425	58.1	18.4
Colo.	564	737	924	1,158	1,442	1,092	324	44.7	1,333	60.8	29.8
Conn.	716	921	1,107	1,415	1,733	1,527	183	29.5	1,710	54.3	19.5
Del.	108	154	192	244	312	261	47	4.9	308	55.2	21.6
D.C.	195	197	206	236	287	230	17	4.1	346	63.0	17.5
Fla.	985	1,616	2,367	3,037	4,120	3,540	621	98.7	3,614	57.4	(NA)
Ga.	898	1,239	1,512	1,990	2,584	2,000	496	52.2	2,470	57.5	(NA)
Hawaii	138	181	231	310	406	355	43	10.8	493	60.5	27.3
Idaho	272	338	375	434	474	327	133	26.9	474	59.1	(NA)
Ill.	2,651	3,268	3,776	4,437	5,238	4,539	643	116.9	5,689	57.0	21.5
Ind.	1,435	1,763	2,046	2,427	2,815	2,293	496	71.2	2,840	54.8	22.4
Iowa	1,072	1,195	1,325	1,549	1,790	1,381	378	60.8	1,633	57.8	19.7
Kans.	863	1,048	1,163	1,369	1,648	1,120	402	53.8	1,436	53.6	23.9
Ky.	784	1,032	1,198	1,500	1,763	1,370	370	26.3	1,572	62.1	21.5
La.	707	952	1,177	1,442	1,742	1,358	360	30.2	1,728	57.5	(NA)
Maine	276	323	374	424	515	405	104	10.0	497	56.1	20.0
Md.	685	938	1,155	1,481	1,872	1,620	233	27.1	2,016	56.9	23.8
Mass.	1,280	1,546	1,803	2,104	2,575	2,301	240	44.9	2,901	55.3	20.6
Mich.	2,433	3,114	3,306	3,991	4,569	3,897	603	160.4	5,009	57.2	23.1
Minn.	1,169	1,365	1,592	1,890	2,206	1,747	430	72.3	2,221	57.6	22.6
Miss.	484	637	723	921	1,117	817	282	16.7	1,320	60.8	20.0
Mo.	1,261	1,490	1,720	2,085	2,408	1,883	501	60.2	2,528	55.7	22.5
Mont.	265	331	373	429	485	311	164	24.8	398	55.3	25.9
Nebr.	569	662	734	849	974	707	261	32.9	898	55.7	(NA)
Nev.	77	124	175	266	355	262	80	18.5	335	56.1	20.2
N.H.	172	212	267	331	362	302	53	9.5	402	56.2	20.8
N.J.	1,579	2,061	2,401	2,980	3,586	3,198	327	47.6	3,899	56.3	18.9
N. Mex.	238	340	426	525	637	451	173	21.8	553	55.3	(NA)
N.Y.	3,735	4,643	5,067	5,939	6,718	5,968	648	86.3	7,991	59.7	17.6
N.C.	1,050	1,437	1,720	2,156	2,826	2,208	541	47.8	2,635	56.1	25.0
N. Dak.	276	309	345	396	428	266	153	11.3	328	57.0	24.6
Ohio	2,795	3,526	4,087	4,935	5,975	5,290	628	129.2	5,828	60.4	19.7
Okl.	831	1,026	1,184	1,438	1,713	1,210	476	56.2	1,492	54.1	23.2
Oreg.	689	802	919	1,119	1,369	1,107	233	59.0	1,176	57.2	16.4
Pa.	3,010	3,737	4,287	4,968	5,819	5,040	716	115.4	6,217	59.3	21.1
R.I.	251	308	341	406	488	431	52	10.9	496	57.9	(NA)
S.C.	579	782	879	1,094	1,360	1,095	240	17.3	1,377	61.2	30.5
S. Dak.	290	325	354	398	426	290	126	12.0	401	55.1	25.7
Tenn.	858	1,102	1,307	1,655	2,050	1,631	388	45.5	2,013	55.8	19.6
Tex.	2,968	3,869	4,457	5,610	6,693	5,104	1,488	144.6	5,860	56.4	22.7
Utah	247	336	417	525	626	476	137	29.1	627	55.6	(NA)
Vt.	121	136	162	175	229	189	36	7.3	246	58.1	(NA)
Va.	918	1,243	1,426	1,800	2,263	1,876	343	32.6	2,388	57.7	21.7
Wash.	924	1,164	1,377	1,659	2,102	1,606	453	62.3	1,904	54.9	22.8
W. Va.	482	552	601	696	860	680	167	39.2	861	59.8	23.5
Wis.	1,201	1,386	1,600	1,839	2,218	1,851	328	54.5	2,458	56.5	24.0
Wyo.	145	174	207	225	247	157	84	10.6	222	59.0	(NA)

NA Not available.

<sup>1</sup> Excludes vehicles owned by military services.

<sup>2</sup> Estimated from data reported by States for current and previous years; allowance has been made for deaths, emigration, or revocation by some States.

<sup>3</sup> Incomplete data for some States.

Source: Dept. of Transportation, Federal Highway Administration; annual reports, *Highway Statistics, Drivers Licenses—1969*, and unpublished data.

## No. 850. NEW PASSENGER CAR PRODUCTION AND IMPORTS: 1963 TO 1970

ITEM	1963	1964	1965	1966	1967	1968	1969	1970
Value of production:								
Gross auto product <sup>1</sup> .....bil. dol.	25.1	25.8	31.8	30.0	28.9	36.1	36.6	30.9
Gross national product <sup>2</sup> .....bil. dol.	590.5	632.4	684.9	749.9	793.9	865.0	931.4	976.5
Gross auto product as percent of GNP	4.3	4.1	4.6	4.0	3.6	4.2	3.9	3.2
Production and imports:								
Total.....1,000 units	8,053	8,261	9,894	9,518	8,434	10,469	10,071	8,563
Domestic production.....1,000 units	7,644	7,745	9,335	8,605	7,413	8,849	8,224	6,550
Imports.....1,000 units	409	516	559	913	1,021	1,620	1,847	2,013
Percent of total	5.1	6.2	5.6	9.6	12.1	15.5	18.3	23.5

<sup>1</sup> Value of domestically produced cars plus net value added by distribution of new, used, and imported cars.  
<sup>2</sup> For definition, see text, p. 303.

Source: Dept. of Commerce, Bureau of the Census and Office of Business Economics; unpublished data.

## No. 851. AUTOMOBILES—FACTORY INSTALLED EQUIPMENT: 1956 TO 1970

[Refers to model-year production. For certain items, such as air conditioning, a significant number of units are installed on new vehicles after they leave the factory]

EQUIPMENT	UNITS INSTALLED (1,000)					PERCENT OF CARS PRODUCED				
	1956	1960	1965	1969	1970	1956	1960	1965	1969	1970
Automatic transmission.....	4,709	4,306	7,134	7,479	7,213	74.8	71.6	80.7	90.3	91.0
Manual transmission.....	1,586	1,706	1,709	800	709	25.2	28.4	19.3	9.7	8.9
V-8 engine.....	5,122	3,409	6,492	7,359	6,674	81.4	56.7	73.4	88.9	84.2
6-cylinder engine.....	1,173	2,603	2,350	915	1,247	18.6	43.3	26.6	11.1	15.7
Power brakes.....	1,529	1,948	2,856	4,512	4,437	24.3	32.4	32.3	64.5	56.0
Power steering.....	1,720	2,357	5,270	6,987	6,438	27.3	39.2	59.0	84.4	81.2
Power windows <sup>1</sup> .....	412	370	1,261	1,438	1,319	6.0	6.3	14.3	17.4	16.7
Air conditioning.....	164	414	2,061	4,471	4,826	2.6	6.9	23.3	54.0	60.9
Tinted glass <sup>2</sup> .....	1,988	1,668	4,572	5,774	5,507	31.6	27.7	51.7	60.7	69.5

<sup>1</sup> Includes power operated station wagon rear windows. <sup>2</sup> Covers windshield and other glass.

Source: *Annual Statistical Issue, Automotive Industries*. Published by Chilton Company, Philadelphia, Pa. (Copyright.)

## No. 852. AUTOMOBILE OWNERSHIP, AGE, AND FINANCING: 1950 TO 1970

[Excludes Alaska and Hawaii. For definition of family unit, see headnote, table 504]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
Total number of families in U.S. <sup>1</sup> .....millions	45.2	49.1	53.4	58.4	60.2	61.2	62.1	63.7
Families owning automobiles.....percent	59	70	77	79	78	79	79	82
Owning 1 automobile.....percent	52	60	62	55	53	53	52	53
Owning 2 or more automobiles.....percent	7	10	15	24	25	26	27	29
Automobiles owned, by age: <sup>2</sup>								
Less than 2 years old.....percent	17	12	14	16	17	14	15	16
2 and 3 years old.....percent	10	22	20	21	22	24	22	21
4-7 years old.....percent	6	43	41	33	33	36	41	42
8 years old and over.....percent	58	23	25	30	28	26	22	21
Total automobiles purchased <sup>3</sup> .....millions		13.6	14.1	18.3	19.1	19.2	20.5	19.8
New cars.....millions		4.4	5.2	7.2	7.6	6.9	7.5	8.3
Average price paid.....dollars	(NA)	2,730	3,140	3,140	3,260	3,290	3,510	3,090
Used cars.....millions		9.2	9.1	11.1	11.5	12.3	13.0	11.5
Average price paid, gross.....dollars		780	980	920	880	1,050	1,000	1,170
Method of financing purchases:								
All passenger cars <sup>4</sup> .....percent	100	100	100	100	100	100	100	100
Full cash (including trade-in allowance).....percent	47	38	38	48	48	42	47	47
Installment credit and other borrowing.....percent	52	60	62	52	52	58	53	53
New passenger-car buyers <sup>4</sup> .....percent	100	100	100	100	100	100	100	100
Full cash (including trade-in allowance).....percent	54	39	33	40	38	31	34	34
Installment credit and other borrowing.....percent	46	60	67	60	62	69	66	66
Used passenger cars <sup>4</sup> .....percent	100	100	100	100	100	100	100	100
Full cash (including trade-in allowance).....percent	41	37	41	53	53	50	51	52
Installment credit and other borrowing.....percent	57	60	59	47	47	50	49	48

NA Not available. <sup>1</sup> At time of survey, early in year indicated.

<sup>2</sup> Age is determined by subtracting model year from year of survey. <sup>3</sup> Covers family units buying cars during preceding calendar year and still owning them at time of survey (January-February of year indicated).

<sup>4</sup> Refers to purchases during preceding year. Includes cars received as gifts, whether cash or credit purchased. Buyers for whom method of financing was not ascertained are excluded from the detail on purchases.

Source: The University of Michigan, Survey Research Center, Ann Arbor, Mich., *Survey of Consumer Finances*.

**No. 853. HOUSEHOLD EXPENDITURES ON NEW AND USED CARS: 1967 TO 1971**

[Seasonally adjusted. Annual figures are averages of quarterly rates, except purchases per 100 households. Expenditures and prices are net of trade-in allowances and State and Federal taxes. Based on sample]

YEAR AND QUARTER	PURCHASES PER 100 HOUSEHOLDS		EXPENDITURES, ANNUAL RATE (bil. dol.)			AVERAGE PRICE (dollars)	
	New cars	Used cars	Total	New cars	Used cars	New car	Used car
1967	11.9	22.0	30.5	19.4	11.0	2,731	840
1968	13.1	21.9	35.1	23.2	11.9	2,912	888
1969	12.9	20.6	33.5	24.5	12.0	3,031	941
1970	11.1	19.6	33.3	21.3	12.0	3,018	959
1971, Jan.-Mar.	2.6	5.2	37.6	23.7	13.9	3,329	1,003

Source: Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-65, Nos. 24, 25, and 35.

**No. 854. ESTIMATED COST OF OPERATING AN AUTOMOBILE: 1960, 1968, AND 1970**

[1970 estimates were based on a 4-door sedan, costing \$3,374, including \$189 Federal excise tax, with an assumed life-span of 10 years, 100,000 miles. Similar specifications were used in 1960 and 1968]

ITEM	10 YEAR TOTAL COSTS			CENTS PER MILE COST, 1970 (January)					
	1960 (Oct.)	1968 (Jan.)	1970 (Jan.)	10-year average	1st year (14,500 miles)	3d year (11,500 miles)	5th year (9,000 miles)	7th year (9,500 miles)	10th year (5,700 miles)
<b>Total</b>	<b>\$9,761</b>	<b>\$11,024</b>	<b>\$11,890</b>	<b>11.89</b>	<b>14.21</b>	<b>12.10</b>	<b>11.50</b>	<b>12.02</b>	<b>10.82</b>
Costs excluding taxes	8,595	9,852	10,537	10.54	11.93	10.88	10.32	10.88	9.56
Depreciation	2,542	2,806	3,185	3.19	6.59	3.92	2.60	1.63	.88
Repairs and maintenance <sup>1</sup>	1,722	1,788	1,521	1.52	.50	1.59	1.74	3.40	.53
Replacement tires and tubes <sup>2</sup>	181	232	385	.39	.12	.12	.39	.44	.82
Accessories <sup>3</sup>	140	82	28	.08	.01	.01	.01	.05	.06
Gasoline <sup>4</sup>	1,453	1,497	1,733	1.73	1.73	1.73	1.73	1.73	1.73
Oil <sup>4</sup>	187	227	158	.16	.11	.13	.16	.19	.22
Insurance <sup>5</sup>	1,290	1,415	1,722	1.72	1.44	1.73	1.87	1.57	2.61
Garaging, parking, tolls, etc. <sup>6</sup>	1,080	1,805	1,805	1.80	1.43	1.65	1.82	1.88	2.71
Taxes and fees <sup>7</sup>	1,166	1,172	1,353	1.35	2.28	1.22	1.18	1.14	1.26

<sup>1</sup> For 1970, includes lubrication, washing, and waxing; replacement of spark plugs, points and condenser, wiper blades, fan belt, radiator hoses, etc.; starter, water pump, and brake overhaul; universal joint replacement, etc.; and major repair such as a complete "valve job."

<sup>2</sup> For 1970, covers 7 new regular tires and 4 new snow tires during life of car.

<sup>3</sup> For 1970, includes a set of vinyl floor mats and seat covers.

<sup>4</sup> For 1970, gasoline use set at 13.8 miles per gallon; oil use associated with gasoline at rate of 1 to 128.

<sup>5</sup> For 1970, includes \$50,000 combined public liability, property damage, \$1,000 medical, and comprehensive for full 10 years; uninsured motorist coverage, and \$100 deductible collision insurance assumed for first 5 years.

<sup>6</sup> For 1970, includes monthly charges of \$10 for garage rental or cost of owner's garaging facility, parking fee average of \$54 per year, and toll average of \$6.50 per year.

<sup>7</sup> For 1970, includes Federal gasoline tax of 4 cents and Maryland and Maryland gasoline tax of 7 cents per gallon; Maryland registration fee of \$20 and titling tax at 4 percent of retail price; and Federal excise taxes on motor vehicles, tires, and oil. Total taxes include property and oil taxes.

Source: Dept. of Transportation, Federal Highway Administration; *Cost of Operating an Automobile*.

**No. 855. CARS AND TRUCKS IN USE, BY AGE: 1955 TO 1970**

[As of July 1. Prior to 1960, excludes Alaska and Hawaii. Excludes vehicles for which age was not known]

AGE	1955		1960		1965		1969		1970	
	Number (1,000)	Per cent	Number (1,000)	Per cent	Number (1,000)	Per cent	Number (1,000)	Per cent	Number (1,000)	Per cent
<b>Total cars<sup>1</sup></b>	<b>47,123</b>	<b>100.0</b>	<b>56,935</b>	<b>100.0</b>	<b>68,935</b>	<b>100.0</b>	<b>78,445</b>	<b>100.0</b>	<b>80,427</b>	<b>100.0</b>
Under 3 years	14,448	30.7	14,186	24.9	21,578	31.3	23,449	29.9	24,403	30.3
3-5 years	15,164	32.2	18,346	32.2	18,013	26.1	25,185	32.1	24,023	31.0
6-8 years	10,148	21.5	12,380	21.7	13,571	19.7	16,720	21.3	18,441	22.9
9-11 years	7,365	15.6	9,199	16.2	9,862	14.3	7,365	9.4	7,735	9.6
12 years and over	7,365	15.6	2,825	5.0	5,911	8.6	5,727	7.3	4,925	6.1
<b>Total trucks<sup>1</sup></b>	<b>9,111</b>	<b>100.0</b>	<b>10,771</b>	<b>100.0</b>	<b>13,106</b>	<b>100.0</b>	<b>16,573</b>	<b>100.0</b>	<b>17,672</b>	<b>100.0</b>
Under 3 years	2,089	22.4	2,046	19.0	3,222	24.6	4,201	25.9	4,680	26.5
3-5 years	2,767	30.4	2,418	22.4	2,476	18.9	4,028	24.3	4,250	24.1
6-8 years	2,319	25.5	2,077	19.3	1,950	14.9	2,524	15.2	2,955	16.7
9-11 years	702	7.7	2,332	21.7	1,844	14.1	1,759	10.6	1,862	10.6
12 years and over	1,285	14.1	1,898	17.6	3,614	27.6	3,971	24.0	3,925	22.2

<sup>1</sup> For 1965 and earlier years, Willys jeeps included in "Cars"; thereafter, in "Trucks."

Source: R. L. Polk & Co., Detroit, Mich. Further reproduction prohibited without Polk permission.

## No. 856. MOTOR FUEL CONSUMPTION, BY USE: 1940 TO 1969

[Excludes Alaska and Hawaii. Prior to 1960, excludes Alaska and Hawaii. Comprises gasoline and all Excludes exports and Federal purchases for military use. Obtained s. See *Historical Statistics, Colonial Times to 1967*, series Q 318-320, for highway and nonhighway usage]

ITEM	1940	1945	1950	1955	1960	1965	1967	1968	1969
<b>Total consumption</b> <sup>1</sup>	24,404	22,304	40,280	53,116	63,714	71,104	77,693	82,938	88,122
Passenger vehicles	16,759	14,023	25,037	34,319	41,996	51,169	56,020	59,456	63,395
Passenger cars <sup>2</sup>	16,323	13,323	24,305	33,548	41,169	50,275	55,110	58,524	62,448
Buses <sup>3</sup>	436	700	732	771	827	894	910	932	947
Trucks and combinations	5,156	5,055	10,566	13,308	15,882	19,935	21,673	23,482	24,727
Average gallons consumed per vehicle	678	617	728	750	777	775	786	804	821
Passenger cars <sup>2</sup>	594	517	603	644	661	656	669	682	700
Buses <sup>3</sup>	3,049	4,294	3,752	3,021	3,040	2,844	2,693	2,649	2,600
Trucks and combinations	1,097	1,020	1,257	1,278	1,330	1,347	1,338	1,382	1,384
Average mileage per gallon, per vehicle	13.80	13.11	12.87	12.67	12.42	12.49	12.38	12.25	12.15
Passenger cars <sup>2</sup>	15.29	15.04	14.95	14.53	14.28	14.15	14.05	13.91	13.75
Buses <sup>3</sup>	6.09	5.48	5.57	5.85	5.26	5.35	5.38	5.33	5.32
Trucks and combinations	9.68	9.00	8.57	8.37	7.96	8.00	8.42	8.37	8.36

<sup>1</sup> Through 1960, includes nonhighway usage and losses allowed for evaporation, handling, etc.; thereafter, highway usage only. <sup>2</sup> Includes taxicabs and motorcycles. <sup>3</sup> Includes school buses.

Source: Dept. of Transportation, Federal Highway Administration; annual report, *Highway Statistics*.

## No. 857. SPEED OF MOTOR VEHICLES: 1945 TO 1969

[Excludes Alaska and Hawaii. Based on actual speed of each vehicle recorded on tangent sections of main rural highways during off-peak hours]

ITEM	1945 <sup>1</sup>	1950	1955	1960	1963	1964	1965	1966	1967	1968	1969
Number of vehicles recorded.....1,000	96	280	395	459	539	569	552	519	478	480	388
Average speed, all vehicles.....m.p.h.	44.0	47.6	50.5	52.6	55.8	55.9	56.4	57.3	58.0	59.0	60.0
Passenger cars.....m.p.h.	45.0	48.7	52.0	53.8	57.1	57.2	57.8	58.8	59.5	60.4	61.3
Trucks.....m.p.h.	39.8	43.0	45.6	48.2	51.3	51.8	51.8	52.6	53.1	54.0	54.9
Buses.....m.p.h.	45.5	49.8	52.3	55.5	58.1	57.8	57.4	58.8	59.4	60.5	59.4
Vehicles exceeding—											
40 m.p.h.....percent	64	77	87	92	95	95	95	96	96	97	98
45 m.p.h.....percent	42	58	72	80	88	87	88	89	91	92	93
50 m.p.h.....percent	24	37	50	58	72	71	73	76	79	81	82
55 m.p.h.....percent	11	20	29	37	52	53	56	59	64	66	67
60 m.p.h.....percent	5	8	14	16	29	32	34	40	44	45	46
65 m.p.h.....percent	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	24	26	27
70 m.p.h.....percent	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	12	12	13

NA Not available. <sup>1</sup> Aug. 15 to Dec. 31.

Source: Dept. of Transportation, Federal Highway Administration; *Traffic Speed Trends*, and unpublished data.

## No. 858. AUTOMOBILE INSURANCE: 1950 TO 1969

[Money figures in millions of dollars. Prior to 1960, excludes Alaska and Hawaii. 1950, net basis; 1955, direct writing basis; 1960 and 1965, direct premiums earned and direct losses incurred]

ITEM	1950	1955	1960	1965	1967	1968	1969
<b>Total insurance:</b>							
Premiums written	2,625	4,644	6,448	8,358	10,800	11,693	12,906
Losses paid	1,069	2,122	3,645	5,221	5,814	6,642	7,715
Percent of premiums written	40.7	45.7	56.5	62.5	53.8	56.8	59.8
<b>Automobile liability, bodily injury:</b>							
Premiums written	931	1,735	2,841	3,948	4,991	5,383	5,892
Losses paid	396	820	1,697	2,459	2,580	2,802	3,093
Percent of premiums written	42.5	47.3	59.7	62.3	51.7	52.1	52.5
<b>Automobile liability, property damage:<sup>1</sup></b>							
Premiums written	482	896	1,219	1,567	2,091	2,280	2,544
Losses paid	231	415	675	1,025	1,234	1,416	1,693
Percent of premiums written	47.9	46.3	55.4	65.4	58.5	62.1	66.5
<b>Physical damage:<sup>2</sup></b>							
Premiums written	1,212	2,013	2,388	2,843	3,718	4,030	4,470
Losses paid	442	887	1,273	1,737	2,011	2,424	2,929
Percent of premiums written	36.5	43.6	53.3	61.1	54.1	60.1	65.5

<sup>1</sup> Covers real property against damage by autos. <sup>2</sup> Covers auto fire, theft, collision, and comprehensive.

Source: The Spectator, Philadelphia, Pa.; 1950, *Insurance Yearbook*; 1955 through 1965, *Insurance by States*; thereafter, *Property Liability Insurance Review*. (Copyright.)

## No. 859. AUTOMOBILE ACCIDENT VICTIMS—ECONOMIC LOSSES, BY TYPE: 1967

[In dollars, except as indicated. Excludes Alaska and Hawaii. Seriously injured persons defined as those meeting any of the following conditions: Hospitalized 2 weeks or more; \$500 or more in medical costs other than hospital; if working, missed 3 weeks of work, if not working, missed 6 weeks of normal activities. Based on a sample of police-reported injuries and fatalities due to automobile accidents.]

TYPE OF LOSS	PER SERIOUSLY INJURED PERSON				PER FAMILY WITH SERIOUSLY INJURED MEMBER OR FATALITY			
	Average total loss	Loss for those sustaining loss		Percent with loss	Average total loss	Loss for those sustaining loss		Percent with loss
		Average	Median <sup>1</sup>			Average	Median <sup>1</sup>	
<b>Total</b> .....	8,290	8,290	2,544	100.0	10,390	10,395	2,805	100.0
To date of interview.....	4,203	4,203	(NA)	100.0	4,233	4,235	(NA)	(NA)
Medical.....	1,604	1,610	892	99.6	1,502	1,654	918	94.4
Hospital.....	813	1,213	729	67.0	812	1,221	716	66.5
Other.....	790	798	492	99.0	760	803	494	93.4
Property damage.....	535	873	710	61.2	574	967	782	59.4
Wage loss.....	1,951	2,838	948	68.8	1,839	2,854	950	64.4
Other losses.....	113	306	297	36.8	258	590	385	43.7
Expected future losses.....	4,087	(NA)	(NA)	(NA)	6,157	(NA)	(NA)	(NA)
Future earnings.....	4,011	40,006	25,507	10.0	0,088	48,157	35,879	12.6
Medical and other costs.....	76	1,098	677	6.9	69	1,105	683	6.2

NA Not available.

<sup>1</sup> For definition of median, see preface.

Source: Dept. of Transportation; *Economic Consequences of Automobile Accident Injuries*, Vol. I, April 1970. (Automobile Insurance and Compensation Study.)

## No. 860. AUTOMOBILE ACCIDENT VICTIMS—REPARATIONS FOR ECONOMIC LOSSES DUE TO SERIOUS INJURIES OR FATALITIES, BY SOURCE: 1967

[See headnote, table 859]

SOURCE OF REPARATION	PERCENT RECEIVING REPARATIONS				AVERAGE REPARATIONS		Median <sup>1</sup> reparations
	All victims	Seriously injured persons	Fatalities	Families with serious injuries or fatalities	All victims	For those receiving reparations	
<b>Total</b> .....	91.1	91.4	89.4	91.4	\$4,940	\$5,555	\$2,355
Families' insurance:							
Medical.....	47.9	51.4	20.7	48.2	549	1,161	678
Life.....	7.2	(X)	62.4	7.2	698	10,098	2,397
Auto medical.....	35.1	37.9	14.1	35.0	211	802	694
Collision.....	29.9	20.8	30.4	29.1	274	1,004	815
Other.....	13.9	13.6	16.7	19.6	197	1,416	673
Miscellaneous sources:							
Net tort.....	45.4	46.6	36.1	45.9	1,585	3,798	2,250
Sick leave.....	18.0	20.1	1.6	8.1	146	910	492
Workmen's compensation.....	6.7	7.5	(X)	6.9	102	1,672	688
Social Security disability.....	2.0	2.2	(X)	2.0	71	3,690	2,898
Other.....	8.0	19.6	5.7	8.1	240	1,335	505
Future compensation:							
Social Security.....	2.6	0.8	16.8	2.1	619	23,323	20,733
Other.....	1.0	0.3	6.4	1.1	248	24,067	25,605

X Not applicable.

<sup>1</sup> For definition of median, see preface.

Source: Dept. of Transportation; *Economic Consequences of Automobile Accident Injuries*, Vol. I, April 1960. (Automobile Insurance and Compensation Study.)



### No. 861. MOTOR-VEHICLE ACCIDENTS—NUMBER AND DEATHS, BY TYPE OF ACCIDENT: 1950 TO 1970

ITEM	1950	1955	1960	1965	1967	1968	1969	1970 (prel.)
Motor-vehicle accidents.....1,000.....	8,300	9,900	10,400	13,200	13,700	14,600	15,500	16,400
Accidents per 10,000 vehicles.....	1,688	1,577	1,397	1,439	1,385	1,416	1,443	1,471
<b>Traffic deaths</b> <sup>1</sup> .....	34,763	38,426	38,137	49,163	52,924	55,200	56,400	55,300
Noncollision accidents.....	10,600	12,100	11,900	14,900	16,700	17,800	<sup>2</sup> 16,000	<sup>2</sup> 15,700
Collision accidents:								
With other motor vehicles.....	11,650	14,500	14,800	20,800	22,000	22,500	24,000	23,200
With pedestrians.....	9,000	8,200	7,850	8,900	9,400	9,800	9,800	9,900
With other vehicles or objects.....	3,490	3,605	3,610	4,560	4,820	5,100	<sup>2</sup> 6,600	<sup>2</sup> 6,500
<b>Traffic death rates:</b>								
Per 100,000 population.....	23.0	23.4	21.2	25.4	26.7	27.6	27.9	27.1
Per 10,000 motor vehicles.....	7.1	6.1	5.1	5.4	5.4	5.4	5.3	5.0
Per 100 million vehicle miles.....	7.6	6.3	5.3	5.5	5.5	5.4	5.3	5.0

<sup>1</sup> Totals may not quite equal sums of various types because the estimates are generally made only to nearest 10 deaths, and to nearest 50 deaths for certain types. <sup>2</sup> Not comparable with earlier years.

Source: National Safety Council, Chicago, Ill.; annual report, *Accident Facts*. (Copyright.)

### No. 862. DEATHS FROM MOTOR-VEHICLE ACCIDENTS—PLACE OF DEATH, BY STATES: 1950 TO 1968

STATE	1950	1955	1960	1965	1968	STATE	1950	1955	1960	1965	1968
U.S. <sup>1</sup> .....	34,763	38,426	38,137	49,163	54,862	Mo.....	902	1,079	1,078	1,387	1,495
Ala.....	859	859	926	1,248	1,285	Mont.....	209	244	231	289	292
Alaska.....	22	31	43	57	85	Neb.....	317	331	310	411	451
Ariz.....	333	384	507	555	703	Nev.....	122	186	182	215	234
Ark.....	365	447	449	635	693	N.H.....	103	110	103	148	180
Calif.....	3,082	3,524	3,837	4,804	5,048	N.J.....	715	815	764	1,104	1,336
Colo.....	415	455	443	557	672	N. Mex.....	340	383	427	517	497
Conn.....	287	353	303	415	448	N.Y.....	1,961	2,163	2,034	2,798	3,117
Del.....	84	112	91	126	168	N.C.....	1,153	1,222	1,281	1,723	1,927
D.C.....	102	99	82	99	129	N. Dak.....	105	153	166	176	214
Fla.....	882	1,048	1,303	1,702	2,124	Ohio.....	1,850	2,089	1,933	2,333	2,550
Ga.....	928	1,122	1,079	1,403	1,821	Okla.....	504	569	686	730	761
Hawaii.....	74	64	111	110	166	Oreg.....	461	434	469	717	671
Idaho.....	243	184	231	262	279	Pa.....	1,656	1,872	1,685	2,167	2,537
Ill.....	1,953	1,877	1,564	2,197	2,438	R.I.....	87	94	60	102	146
Ind.....	1,135	1,189	1,164	1,550	1,556	S.C.....	627	696	690	847	979
Iowa.....	620	613	644	831	885	S. Dak.....	198	200	241	252	263
Kansas.....	546	613	535	684	682	Tenn.....	801	998	899	1,265	1,325
Ky.....	753	907	808	943	1,080	Tex.....	2,499	2,602	2,316	3,067	3,511
La.....	585	703	849	1,121	1,306	Utah.....	199	211	269	314	315
Maine.....	161	177	181	227	237	Vt.....	69	87	104	136	131
Mid.....	480	500	527	710	870	Va.....	929	909	782	1,072	1,245
Mass.....	492	621	621	888	910	Wash.....	534	514	597	768	959
Mich.....	1,627	2,086	1,634	2,134	2,300	W. Va.....	400	398	371	507	525
Minn.....	558	613	750	897	1,096	Wis.....	857	954	926	1,055	1,157
Miss.....	525	562	699	723	787	Wyo.....	149	145	182	184	176

<sup>1</sup> Prior to 1960, excludes Alaska and Hawaii.

Source: Dept. of Health, Education, and Welfare, Public Health Service; annual report, *Vital Statistics of the United States*.

### No. 863. AUTOMOBILE ACCIDENTS—ECONOMIC LOSS PER FATALITY: 1967

(In dollars, except as indicated. Excludes Alaska and Hawaii. Based on a sample of police-reported injuries and fatalities due to automobile accidents)

ITEM	ALL LOSSES <sup>1</sup>		LOSS TO DATE OF DEATH OR OF INTERVIEW			
	Total	Expected future	Total	Medical	Property damage	Other
Average total loss per fatality.....	89,523	87,242	2,281	394	582	1,305
For those sustaining loss:						
Average loss.....	89,523	109,621	2,281	848	1,065	(NA)
Median <sup>2</sup> loss.....	48,819	58,704	(NA)	428	758	(NA)
Percent with loss.....	100.0	79.6	100.0	46.3	54.5	97.7

NA Not available. <sup>1</sup> Includes estimated loss of future earnings of all fatal victims, including those without dependent survivors. <sup>2</sup> For definition of median, see preface.

Source: Dept. of Transportation; *Economic Consequences of Automobile Accident Injuries*, Vol. 1, April 1970. (Automobile Insurance and Compensation Study.)

## No. 864. MOTOR-VEHICLE ACCIDENTS—PERSONS KILLED OR INJURED: 1960 TO 1970

[Estimates based on summaries of motor vehicle accidents prepared by various States]

ITEM	PERSONS KILLED					PERSONS INJURED				
	1960	1965	1968	1969	1970	1960	1965	1968	1969	1970
Number of persons.....1,000.....	38	49	55	56	55	13,078	14,100	14,400	14,700	15,100
Driver action.....1,000.....	30	42	46	46	45	2,600	3,682	3,880	4,140	4,513
Pedestrian action.....1,000.....	8	9	10	10	10	256	275	277	268	301
Percent distribution.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Driver action:										
Exceeding speed limit.....	36.1	41.1	40.8	40.5	39.3	38.5	42.2	20.9	25.5	21.9
On wrong side of road.....	17.0	16.4	14.2	13.6	13.8	6.7	6.8	5.6	5.7	9.3
Had not right-of-way.....	12.8	13.0	13.1	12.6	14.0	22.5	18.9	19.2	19.2	15.7
Drove off roadway.....	16.6	10.5	12.7	15.4	14.5	8.3	6.9	8.8	13.9	11.2
Reckless driving.....	12.5	14.9	14.7	11.9	14.3	13.5	19.2	39.7	30.6	37.0
Other <sup>2</sup> .....	5.0	4.1	4.5	6.0	4.1	10.5	6.0	5.8	5.1	4.9
Pedestrian action:										
Crossing at intersection.....	29.2	20.8	25.0	22.6	22.4	32.7	26.2	32.0	32.9	31.4
Crossing between intersections.....	37.1	40.8	40.6	41.6	41.8	32.2	31.6	25.3	25.3	26.4
Children playing in street.....	5.3	3.3	3.1	2.8	3.1	6.6	6.3	5.0	6.5	5.5
At work in road.....	2.9	2.8	3.1	2.7	2.0	2.2	1.8	1.9	2.2	2.0
Coming from behind parked car.....	6.2	6.9	3.1	3.0	3.1	15.7	16.8	11.7	9.8	9.3
Walking on rural highway.....	10.0	15.6	14.1	14.6	14.3	2.4	7.6	6.9	8.3	12.1
Not on roadway.....	4.2	4.7	3.7	5.8	4.1	4.5	3.6	5.8	5.1	4.4
Other <sup>3</sup> .....	5.1	5.1	7.3	6.9	9.2	3.7	6.1	10.5	9.9	8.9
Collision with—										
Automobile.....	39.5	41.2	41.6	39.8	40.6	74.9	72.5	72.3	73.2	73.2
Pedestrian.....	20.0	18.6	17.4	17.2	17.8	8.3	6.7	6.3	5.7	5.9
Fixed object.....	10.7	10.5	12.8	11.5	10.1	4.8	5.1	6.6	5.9	5.7
Other <sup>4</sup> .....	4.8	4.5	4.3	4.4	3.8	2.1	2.4	2.3	2.3	1.9
Noncollision.....	25.0	25.2	23.9	27.1	27.7	9.9	13.3	12.5	12.9	13.3
Weather condition:										
Clear.....	87.4	84.8	83.7	84.6	84.1	83.9	78.6	79.0	80.3	80.7
Fog.....	1.2	2.0	2.2	1.8	2.0	0.7	1.5	1.2	1.1	1.4
Rain.....	9.0	11.0	11.6	11.5	12.1	10.6	15.4	14.6	14.3	14.2
Snow.....	2.4	2.2	2.5	2.1	1.8	4.8	4.5	5.2	4.3	3.7
Road condition:										
Dry.....	79.2	77.4	76.5	76.8	78.8	71.5	69.1	68.0	69.3	71.7
Wet.....	15.1	17.9	19.0	18.8	17.2	16.5	22.4	23.0	22.6	20.4
Snowy or icy.....	5.7	4.7	4.5	4.4	4.0	12.0	8.5	9.0	8.1	7.9
Day of accident:										
Sunday.....	17.7	18.7	17.9	17.5	17.6	15.2	13.6	14.4	14.1	13.7
Monday.....	11.6	10.9	11.4	11.5	11.4	13.5	13.2	12.6	12.9	13.2
Tuesday.....	11.6	10.0	10.5	10.6	10.5	12.2	11.9	11.7	12.4	12.2
Wednesday.....	10.5	11.2	10.8	11.2	11.2	12.1	12.9	12.1	12.5	13.4
Thursday.....	11.2	11.9	11.4	11.9	12.2	13.5	13.9	13.6	13.1	13.2
Friday.....	16.0	15.4	15.9	15.2	16.3	16.0	16.5	17.0	16.7	16.6
Saturday.....	21.5	21.9	22.1	22.1	20.8	17.5	18.0	15.6	18.3	17.7
Hour of accident:										
Midnight-6 a.m.....	22.3	22.2	21.7	22.5	21.6	10.9	10.7	11.7	12.2	11.8
6 a.m.-noon.....	15.6	14.8	15.0	14.9	15.6	22.0	21.8	20.7	20.2	20.7
Noon-6 p.m.....	27.8	28.7	29.4	27.8	28.4	40.5	39.7	39.6	39.5	40.0
6 p.m.-midnight.....	34.3	34.3	33.9	34.8	34.4	26.6	27.8	28.0	28.1	27.5
Age of victims:										
Under 10 years.....	(NA)	7.6	6.9	(NA)	(NA)	(NA)	8.9	8.6	(NA)	(NA)
10-19 years.....	(NA)	15.9	17.7	(NA)	(NA)	(NA)	21.4	23.2	(NA)	(NA)
20-34 years.....	(NA)	28.4	29.8	(NA)	(NA)	(NA)	31.6	33.1	(NA)	(NA)
35-54 years.....	(NA)	24.3	22.8	(NA)	(NA)	(NA)	25.7	23.5	(NA)	(NA)
55 years and over.....	(NA)	23.8	22.8	(NA)	(NA)	(NA)	12.4	11.6	(NA)	(NA)

NA Not available.

<sup>1</sup> Includes persons injured attributable to action of both parties and those for whom action could not be determined.<sup>2</sup> Cutting in; improper passing; no or improper use of right-of-way; negligent driverless car; miscellaneous.<sup>3</sup> Standing on safety isle; getting on or off vehicle; hitchhiking on vehicle; miscellaneous.<sup>4</sup> Railroad train; bicycle; other vehicle; etc.Source: The Travelers Insurance Companies, Hartford, Conn.; annual report, *The Travelers Book of Street and Highway Accident Data*.

## No. 865. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS: 1950 TO 1969

[Carriers subject to ICC regulations. Prior to 1960, excludes Alaska and Hawaii. See text, p. 524, of class limits]

ITEM	1950	1955	1960	1965	1967	1968	1969
Carriers reporting <sup>1</sup> .....number.....	172	146	143	156	177	173	70
Operating revenue.....mil. dol.....	351	362	453	607	670	695	677
Passenger revenue <sup>2</sup> .....mil. dol.....	325	315	382	467	494	504	496
Special bus revenue and other.....mil. dol.....	27	47	81	141	176	191	181
Expenses.....mil. dol.....	315	331	405	514	591	613	594
As percent of operating revenue.....	89.7	91.4	87.5	84.7	88.3	88.3	87.7
Net operating revenue.....mil. dol.....	36	31	58	90	78	81	83
Ordinary income before income taxes.....mil. dol.....	35	29	55	90	83	97	96
Net income after income taxes.....mil. dol.....	19	16	28	52	52	61	56
Passenger vehicles <sup>3</sup> .....number.....	14,566	13,127	12,680	13,287	15,406	15,398	12,992
Owned end of year <sup>2</sup> .....number.....	13,200	11,547	10,946	11,295	12,307	12,257	10,062
Intercity.....number.....	13,621	12,057	11,142	10,106	10,932	10,897	9,084
Vehicle-miles, passenger <sup>3</sup> .....mil.....	959	859	843	947	997	977	869
Number of revenue passengers carried.....mil.....	390	293	268	219	230	230	178
Miles per vehicle, average <sup>4</sup> .....	65,411	64,128	65,567	67,689	60,059	58,423	61,646
Average fare per passenger, per carrier (intercity).....	\$1.01	\$1.37	\$2.12	\$2.73	\$2.79	\$2.91	\$3.55
Passenger revenue per vehicle-mile, regular-route.....	\$0.35	\$0.38	\$0.49	\$0.56	\$0.57	\$0.60	\$0.65
Expense per vehicle-mile.....	\$0.33	\$0.38	\$0.48	\$0.54	\$0.59	\$0.63	\$0.68
Number of employees, average.....1,000.....	40	36	35	35	38	37	34
Compensation of employees.....mil. dol.....	139	150	196	250	287	297	293

<sup>1</sup> Excludes carriers subject to ICC jurisdiction engaged preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers. <sup>2</sup> Regular route intercity and local.<sup>3</sup> Vehicles owned, leased, and operated under "purchased transportation" arrangements, operated in all revenue service. <sup>4</sup> Owned and leased vehicles, intercity service.Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 7.

## No. 866. INTERCITY BUS LINES—SUMMARY OF OPERATIONS: 1960 TO 1970

ITEM	1960	1965	1967	1968	1969	1970 (est.)
Operating companies.....	1,150	1,100	1,050	1,050	1,050	1,000
Buses.....	20,974	20,600	21,900	22,100	22,700	23,000
Miles of highway served (Dec. 31) <sup>1</sup> .....1,000.....	205	263	263	264	266	268
Employees (Dec. 31) <sup>2</sup> .....1,000.....	45	45	47	47	48	49
Total bus miles.....millions.....	1,092	1,157	1,205	1,190	1,195	1,204
Revenue passengers.....millions.....	366	378	400	398	395	395
Revenue passenger-miles.....millions.....	19,300	23,800	24,900	24,500	24,900	25,000
Operating revenue, all services.....mil. dol.....	556	701	768	798	846	902
Operating expenses.....mil. dol.....	495	600	682	709	752	814
Net operating revenue before income taxes.....mil. dol.....	61	101	86	89	94	88
Taxes assignable to operations <sup>3</sup> .....mil. dol.....	53	59	67	67	70	74

<sup>1</sup> Includes duplication between carriers. <sup>2</sup> Operating companies only. <sup>3</sup> Excludes income taxes.Source: National Association of Motor Bus Owners, Washington, D.C.; *Bus Facts*, and unpublished data.

## No. 867. BUS CARRIERS—REVENUE AND EXPENSES, BY TYPE OF SERVICE: 1967

[Money figures in thousands of dollars. Covers carriers with payroll not subject to Interstate Commerce Commission economic regulation. Excludes carriers operated by municipalities or other governmental bodies]

ITEM	Total	TYPE OF SERVICE				
		Local	Inter-city	Charter or special	Sight-seeing	Airport
ALL CARRIERS						
Number of carriers.....	1,254	711	176	132	54	74
Operating revenue.....	582,118	455,190	38,741	16,659	14,745	26,113
Payroll, annual <sup>2</sup> .....	304,909	255,518	20,152	6,089	5,507	11,894
Paid employees, week incl. March 12.....	51,580	42,057	3,743	1,745	1,084	2,216
CARRIERS REPORTING REVENUE AND EXPENSES						
Number of carriers.....	832	533	115	97	27	60
Revenue, total.....	460,503	383,350	28,586	12,120	11,768	24,679
Passenger revenue.....	414,269	340,761	27,169	11,600	10,580	24,159
Local service.....	318,920	318,613	379	774	-	15
Inter-city service.....	24,751	440	23,883	404	-	180
Charter and special service.....	29,805	14,853	2,559	9,280	1,719	1,394
Airport service.....	23,008	277	25	69	222	22,415
School and sightseeing service.....	16,779	6,569	323	1,073	8,639	175
Nonpassenger revenue.....	46,234	42,589	1,417	520	1,188	520
Expenses: Payroll, annual <sup>2</sup> .....	255,783	220,746	14,713	4,891	4,312	11,121
Other <sup>3</sup> .....	172,503	136,905	13,199	6,591	6,370	9,378

— Represents zero. <sup>1</sup> Includes unclassified carriers, not shown separately. <sup>2</sup> Excludes salaries paid owners and partners of unincorporated businesses. <sup>3</sup> Excludes interest on loans or other indebtedness.Source: Dept. of Commerce, Bureau of the Census; *U. S. Census of Business: 1967*, Misc. Subjects, BC 67-SS8.

## No. 868. TRANSIT INDUSTRY—SUMMARY: 1940 TO 1969

[Major figures in millions of dollars, except as indicated.] Prior to 1960, excludes Alaska and Hawaii. Comprises inter transportation agencies except taxicabs, suburban (a) local motorbus lines, (b) electric street railways, (c) trolleys and (d) trolley coach lines. Based on financial and statistical reports received by American Transit Association from transit companies representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1857*, series Q 330-340]

ITEM	1940	1950	1955	1960	1965	1966	1967	1968	1969
<b>Operating companies</b> .....	(NA)	1,406	1,483	1,251	1,148	1,134	1,138	1,094	1,086
Motorbus companies <sup>1</sup> .....	(NA)	1,354	1,450	1,236	1,145	1,131	1,135	1,091	1,082
<b>Miles of route operated (Dec. 31):</b>									
Electric railway—single track.....	19,600	10,813	6,197	3,935	2,173	2,153	2,049	2,045	2,081
Surface.....	18,360	9,590	4,976	2,692	918	898	790	775	762
Subway and elevated.....	1,240	1,223	1,221	1,243	1,255	1,255	1,259	1,270	1,319
Trolley coach—negative overhead wire.....	1,925	3,482	3,428	2,196	766	670	616	616	563
Motorbus—route round trip.....	78,000	98,000	99,800	108,700	120,900	122,100	123,600	121,000	117,300
<b>Passenger vehicles owned (Dec. 31):</b>									
Electric railway cars.....	37,662	23,543	14,532	11,806	10,664	10,680	10,645	10,745	10,665
Surface.....	26,630	13,800	5,300	2,856	1,549	1,407	1,388	1,365	1,322
Subway and elevated.....	11,032	9,743	9,232	9,010	9,115	9,273	9,267	9,390	9,343
Trolley coaches.....	2,802	6,504	6,157	3,826	1,453	1,326	1,244	1,185	1,082
Motorbuses.....	35,000	56,820	52,400	49,600	49,600	50,130	50,180	50,000	49,600
<b>Investment (Dec. 31)</b> .....	4,096	3,918	3,821	3,937	4,225	4,350	4,492	4,533	4,578
Electric railway.....	3,588	3,060	2,902	3,003	3,243	3,321	3,420	3,475	3,502
Surface.....	1,574	913	616	367	165	149	150	146	145
Subway and elevated.....	2,014	2,147	2,286	2,636	3,078	3,172	3,270	3,320	3,357
Trolley coach.....	58	144	160	117	49	43	40	38	38
Motorbus.....	450	714	759	817	933	986	1,023	1,020	1,038
<b>Operating finances:</b>									
Operating revenue.....	737	1,452	1,420	1,407	1,444	1,479	1,556	1,563	1,626
Electric railway.....	456	578	440	360	366	365	405	411	435
Surface.....	328	362	176	88	56	50	53	53	55
Subway and elevated.....	128	216	264	282	310	307	352	358	380
Trolley coach.....	25	122	131	82	42	39	36	36	33
Motorbus.....	256	752	856	956	1,036	1,074	1,116	1,116	1,188
Operating expenses.....	508	1,297	1,277	1,290	1,374	1,424	1,531	1,626	1,745
Percent of revenue.....	81.1	89.3	89.6	91.7	95.2	96.3	98.4	104.0	107.3
Net revenue.....	139	155	149	117	70	55	25	263	219
Taxes (all).....	63	89	93	87	81	92	92	98	101
Operating income.....	76	66	56	31	211	237	267	2161	2221
Percent of revenue.....	10.4	4.6	3.9	2.2	(?)	(?)	(?)	(?)	(?)
<b>Revenue vehicle-miles operated</b> .....									
Electric railway.....mil.	2,596	3,008	2,448	2,143	2,008	1,984	1,997	1,989	1,967
Surface.....mil.	1,316	907	561	466	437	422	434	444	453
Subway and elevated.....mil.	845	463	178	75	42	43	38	38	36
Trolley coach.....mil.	471	443	383	391	305	379	397	407	417
Motorbus.....mil.	86	206	177	101	43	40	36	36	36
Motorbus.....mil.	1,195	1,895	1,710	1,676	1,522	1,522	1,528	1,508	1,478
<b>Passengers carried</b> .....									
Electric railway.....mil.	13,098	17,246	11,529	9,395	8,253	8,083	8,172	8,019	7,803
Surface.....mil.	8,325	6,168	3,077	2,313	2,134	2,035	2,201	2,181	2,220
Subway and elevated.....mil.	5,943	3,904	1,207	463	276	282	263	263	240
Trolley coach.....mil.	2,382	2,264	1,870	1,850	1,858	1,753	1,983	1,928	1,980
Motorbus.....mil.	584	1,658	1,202	657	305	284	248	228	199
Motorbus.....mil.	4,239	9,420	7,250	6,425	5,814	5,704	5,723	5,610	5,375
<b>Revenue passengers carried</b> .....mil.	10,504	13,845	9,189	7,521	6,798	6,671	6,616	6,491	6,310
Electric railway.....mil.	6,464	4,903	2,586	2,005	1,832	1,795	1,828	1,814	1,840
Surface.....mil.	4,183	2,790	845	335	204	211	196	187	184
Subway and elevated.....mil.	2,282	2,113	1,741	1,670	1,678	1,584	1,632	1,627	1,666
Trolley coach.....mil.	419	1,261	889	447	186	174	155	152	155
Motorbus.....mil.	3,620	7,681	5,734	5,069	4,730	4,702	4,633	4,525	4,335
<b>Employees, number (avg.) 1,000</b> .....	203	240	198	156	145	144	146	144	141
Subway and elevated.....		39	41	35	36	36	38	38	37
Surface railway—trolley coach and motorbus.....	203	201	157	121	109	108	108	106	104
Payroll, employee.....	360	835	804	857	984	995	1,055	1,110	1,184
Average annual earnings per employee.....dollars	1,773	3,470	4,364	5,481	6,645	6,895	7,222	7,727	8,404

NA Not available. <sup>1</sup> Comprises companies operating motorbuses exclusively and companies with combined services such as trolley coach and motorbus, etc. <sup>2</sup> Deficit, not computed as percent of operating revenue.

Source: American Transit Association, Washington, D.C.; annual report, *Transit Fact Book*.

## No. 869. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY: 1950 TO 1969

[Carriers subject to ICC regulations. Prior to 1960, excludes Alaska and Hawaii. See text, p. 524, for class limits]

ITEM	1950	1955	1960	1965	1967	1968	1969
Carriers reporting.....	1,621	2,244	935	1,114	1,198	1,252	1,311
Operating revenue.....mil. dol.	2,380	4,030	4,763	7,131	8,091	9,593	10,770
Common carrier.....mil. dol.	2,181	3,622	4,384	6,637	7,524	8,807	9,801
Contract carrier and other.....mil. dol.	199	408	379	493	568	786	968
Expenses.....mil. dol.	2,215	3,870	4,645	6,760	7,796	9,129	10,337
As percent of operating revenue.....	93.1	96.0	97.5	94.8	96.4	95.2	96.0
Net operating revenue.....mil. dol.	165	160	119	371	295	464	433
Net income before income taxes.....mil. dol.	159	146	81	329	234	405	349
Net income after income taxes.....mil. dol.	93	82	37	209	144	235	197
Owned revenue vehicles.....1,000	191	289	279	355	394	428	466
Trucks.....1,000	29	37	31	36	37	47	54
Truck tractors.....1,000	61	92	88	105	116	122	132
Trailers (semi and full).....1,000	101	150	161	214	241	258	280
Intercity vehicle-miles.....mil.	5,532	7,560	7,203	9,154	9,815	10,902	11,699
Tons of intercity revenue freight carried.....mil.	213	314	276	419	469	523	561
Miles per owned vehicle.....	53,833	53,008	59,590	65,217	64,199	68,303	67,518
Revenue per vehicle-mile (intercity).....	\$0.43	\$0.52	\$0.64	\$0.74	\$0.79	\$0.84	\$0.87
Expense per vehicle-mile (intercity).....	\$0.41	\$0.51	\$0.65	\$0.72	\$0.79	\$0.84	\$0.88
Number of employees, average.....1,000	224	332	327	375	425	469	510
Compensation of employees.....mil. dol.	855	1,690	2,103	2,948	3,569	4,200	4,782

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 7.

## No. 870. TRUCK CARRIERS—REVENUE AND EXPENSES, BY TYPE OF CARRIER: 1967

[Money figures in millions of dollars. Covers only carriers with payroll not subject to Interstate Commerce Commission regulations. Based on a probability sample of all carriers with payroll in the "trucking, except with storage," industry; for details, see source]

TYPE OF CARRIER	ALL CARRIERS			CARRIERS REPORTING OPERATING REVENUE				
	Number	Operating revenue	Payroll, annual <sup>1</sup>	Number	Revenue, total	Revenue from intercity service	Payroll, annual <sup>1</sup>	Other expenses <sup>2</sup>
<b>Total</b> .....	<b>343,628</b>	<b>3,735</b>	<b>1,284</b>	<b>31,168</b>	<b>2,966</b>	<b>1,092</b>	<b>985</b>	<b>1,586</b>
General freight.....	5,240	647	277	4,792	626	238	270	299
Household goods.....	1,063	106	43	1,055	96	28	39	44
Sand and gravel.....	5,598	558	131	5,087	542	149	125	325
Garbage collection.....	4,409	319	118	3,850	300	11	111	139
Retail store delivery.....	894	57	28	778	54	12	27	18
Agriculture and other ICC exempt prod.	7,921	618	169	7,403	602	335	154	366
Other types.....	8,407	782	272	7,603	746	319	268	395

<sup>1</sup> See footnote 2, table 867.<sup>2</sup> See footnote 3, table 867.<sup>3</sup> See footnote 1, table 867.Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Business: 1967*, Misc. Subjects, BC 67-SS8

## No. 871. MOTORTRUCKS, 1963 AND 1967, AND BY GEOGRAPHIC DIVISION, 1967

[In thousands. Includes private and commercial single unit trucks and combinations. Based on a probability sample of truck license holders; subject to sampling variability. For composition of divisions, see fig. 1, p. xii]

ITEM	1963, total	1967, total	GEOGRAPHIC DIVISION, 1967								
			N.E.	M.A.	E.N.C.	W.N.C.	S.A.	E.S.C.	W.S.C.	Mt.	Pac.
<b>Total</b> .....	<b>12,726</b>	<b>315,360</b>	<b>560</b>	<b>1,485</b>	<b>2,370</b>	<b>1,983</b>	<b>2,097</b>	<b>1,202</b>	<b>2,234</b>	<b>1,136</b>	<b>2,293</b>
Size-class: <sup>3</sup> Light.....	8,853	11,318	384	933	1,615	1,331	1,587	924	1,821	908	1,834
Medium.....	1,128	2,098	94	233	381	389	234	168	234	121	265
Heavy.....	2,094	1,944	82	319	374	263	296	120	179	107	205
Range of operation: <sup>4</sup>											
Local.....	8,751	3,722	184	473	685	588	488	270	375	219	440
Short.....	895	623	32	85	103	82	89	49	82	35	65
Long.....	193	228	4	29	45	26	44	17	33	11	21
Major use:											
Agriculture.....	3,528	3,710	59	164	625	873	429	415	600	267	276
Personal.....	3,114	5,169	150	362	605	446	608	384	863	544	1,116
Wholesale and retail trade.....	1,164	1,887	105	280	329	195	305	123	224	82	243
Construction.....	1,198	1,444	89	180	261	144	212	84	169	80	225
Utilities and services.....	930	1,231	67	195	210	134	180	70	129	63	183

<sup>1</sup> Includes misc. trucks not classified.<sup>2</sup> Includes categories not shown separately.<sup>3</sup> Standard classification for all States in terms of gross vehicle weight (empty weight of vehicle plus load it was designed to carry): Light—10,000 lb. or less; Medium—10,001 to 20,000 lb.; Heavy—20,001 lb. or more.<sup>4</sup> Excludes pickup and panel trucks. Local—in or around city and suburbs, or within a short distance of farm, factory, mine, or place vehicle is stationed. Short range—beyond the local area, but usually not more than 200 miles one way to most distant stop from place vehicle is stationed. Long range—usually more than 200 miles one way to most distant stop from place vehicle is stationed.Source: Dept. of Commerce, Bureau of the Census; 1963 and 1967 Census of Transportation, Vol. II, *Truck Inventory and Use Survey*.

NO. 872. RAILROADS—SUMMARY STATISTICS: 1940 TO 1969

[As of December 31. Prior to 1960, excludes Alaska and Hawaii. Covers class I and II railroads, excluding switching and terminal companies, except as noted. Includes intercorporate duplications. See also *Historical Statistics, Colonial Times to 1957*, series Q 44-124]

ITEM	1940	1950	1960	1965	1967	1968	1969
Operating companies <sup>1</sup> .....number..	574	471	407	372	370	360	361
<b>Mileage:</b>							
Road owned, first track <sup>2</sup> .....	233, 670	223, 779	217, 552	211, 384	209, 292	208, 111	207, 005
Track operated:							
Reporting railroads <sup>3</sup> .....	405, 975	396, 380	381, 745	370, 636	368, 030	365, 238	364, 915
First track <sup>4</sup> .....	245, 740	236, 857	230, 169	220, 615	224, 039	222, 924	222, 164
Other main tracks.....	41, 373	40, 456	34, 800	31, 113	30, 387	30, 002	29, 564
Yardtrack and sidings.....	118, 862	119, 067	116, 776	113, 608	113, 604	113, 312	113, 187
Operated by receivers or trustees.....	75, 270	12, 225	1, 259	1, 690	2, 476	660	649
<b>Equipment:</b> <sup>4</sup>							
Locomotives in service.....number..	44, 333	42, 951	31, 178	30, 061	29, 874	29, 448	29, 090
Average tractive effort <sup>5</sup> .....pounds..	50, 905	57, 075	61, 314	63, 096	65, 267	<sup>6</sup> 1, 799	<sup>6</sup> 1, 866
Cars in service:							
Passenger-train.....number..	38, 308	37, 359	25, 746	20, 022	17, 822	14, 816	12, 630
Freight train <sup>7</sup> .....	1, 684	1, 746	1, 690	1, 615	1, 511	1, 485	1, 464
Average capacity <sup>8</sup> .....tons..	50.0	52.6	55.4	59.8	63.4	64.3	65.8
<b>Capital and property investment:</b> <sup>9</sup>							
Road and equipment, book value <sup>10</sup>							
.....mil. dol.	25, 646	30, 174	35, 513	35, 489	37, 251	36, 720	37, 383
Depreciation reserve <sup>11</sup> .....mil. dol.	3, 095	6, 629	8, 532	9, 342	9, 665	9, 450	9, 089
Capitalization outstanding <sup>12</sup> .....mil. dol.	21, 047	18, 274	16, 134	14, 857	14, 690	14, 577	14, 701
Capital surplus and retained income							
.....mil. dol.	2, 783	7, 037	11, 356	12, 945	13, 078	13, 198	13, 001
Stock paying dividends.....mil. dol.	3, 741	6, 769	5, 617	4, 845	4, 728	4, 629	4, 347
Dividends declared.....mil. dol.	217	349	412	533	582	560	535
Interest accrued on funded debt.....mil. dol.	547	367	387	403	455	473	502
<b>Income and expenses:</b>							
Operating revenues.....mil. dol.	4, 355	9, 587	9, 642	10, 425	10, 582	11, 062	11, 659
Operating expenses.....mil. dol.	3, 132	7, 135	7, 657	8, 003	8, 359	8, 724	9, 209
Tax accruals.....mil. dol.	403	1, 212	1, 020	949	941	980	1, 065
Net railway operating income.....mil. dol.	691	1, 055	595	980	690	694	667
Net income <sup>13</sup> .....mil. dol.	243	855	473	866	<sup>13</sup> 368	<sup>13</sup> 623	<sup>13</sup> 517
<b>Passenger service:</b>							
Passenger revenue.....mil. dol.	418	815	641	556	489	447	442
Passengers carried.....millions..	456	498	327	306	304	301	302
Passenger-miles.....millions..	23, 816	31, 790	21, 284	17, 454	15, 264	13, 164	12, 214
Commutation <sup>14</sup> .....millions..	3, 997	4, 090	4, 197	4, 128	4, 281	4, 383	4, 546
Coach <sup>15</sup> .....millions..	12, 485	17, 443	13, 422	11, 089	9, 329	7, 559	6, 601
Parlor and sleeping car <sup>16</sup> .....millions..	7, 288	9, 338	3, 043	2, 191	1, 592	1, 178	1, 021
Revenue per passenger-mile.....cents..	1. 76	2. 56	3. 01	3. 19	3. 20	3. 39	3. 62
Average journey per passenger.....miles..	52. 22	65. 14	65. 05	57. 07	50. 21	43. 68	40. 49
<b>Freight service:</b>							
Freight revenue.....mil. dol.	3, 584	7, 934	8, 152	9, 037	9, 329	9, 942	10, 538
Revenue-tons originated.....millions..	1, 069	1, 421	1, 301	1, 470	1, 498	1, 515	1, 558
Tons carried one mile.....millions..	375, 369	501, 550	575, 360	705, 705	727, 075	750, 468	773, 830
Revenue ton-miles per mile of road.....1, 000..	1, 526	2, 497	2, 497	3, 121	3, 238	3, 386	3, 457
Revenue per ton-mile.....cents..	0. 955	1. 341	1. 417	1. 281	1. 283	1. 325	1. 362
Haul per ton, U.S. as a system.....miles..	351. 13	416. 32	442. 14	477. 15	485. 21	495. 37	496. 82
Number of employees, average.....1, 000..	1, 046	1, 237	793	655	624	602	590
Compensation of employees.....mil. dol.	1, 991	4, 645	4, 987	4, 887	5, 026	5, 197	5, 451
<b>Accidents:</b> <sup>14</sup>							
Persons killed.....number..	4, 740	3, 398	2, 248	2, 399	2, 483	2, 359	2, 290
Persons injured.....number..	29, 606	33, 255	19, 577	25, 789	24, 523	24, 608	23, 356

<sup>1</sup> Includes unaffiliated companies, 1960, circular companies.

<sup>2</sup> Includes lessors, through 1960, circular companies.

<sup>3</sup> Includes switching and terminal companies, except as noted.

<sup>4</sup> Excludes class I railroads.

<sup>5</sup> Represents horsepower. <sup>7</sup> Excludes cabooses.

<sup>6</sup> Increase in investment over a period of years cannot be obtained accurately by subtraction of 1 year's investment from that of another year. <sup>11</sup> Be- reclassification, etc. Also includes proprietary companies.

<sup>12</sup> Comprises common stock, preferred stock, and bonds.

<sup>13</sup> After extraordinary and prior to crossing casualties.

Source: Interstate Commerce Commission; annual reports, *Transport Statistics in the United States*, Part 1, and *Accident Bulletin*. Beginning 1967, accident data from Dept. of Transportation, Federal Railroad Administration; annual report, *Accident Bulletin*.

## No. 873. RAILROADS, CLASS I LINE-HAUL—REVENUES AND EXPENSES: 1950 TO 1970

[In millions of dollars, except percent. See text, p. 524, for explanation of class limits. See also *Historical Statistics, Colonial Times to 1957* series Q 103-117]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970 (prel.)
Operating revenues.....	9,473	10,106	9,514	10,208	10,366	10,855	11,423	11,985
Freight.....	7,817	8,538	8,025	8,836	9,130	9,750	10,320	10,916
Passenger.....	813	743	640	553	485	444	438	420
Mail.....	374	287	331	311	264	195	176	161
Express.....	81	118	100	77	61	44	28	22
Other.....	387	420	417	431	426	421	460	465
Operating expenses.....	7,059	7,646	7,565	7,850	8,204	8,581	9,038	9,731
Maintenance.....	2,996	3,175	2,952	3,011	3,159	3,320	3,493	3,829
Way and structures.....	1,287	1,387	1,192	1,236	1,290	1,405	1,498	1,665
Equipment.....	1,708	1,788	1,760	1,775	1,869	1,914	1,995	2,164
Traffic.....	192	235	258	262	270	274	279	285
Transportation, rail line.....	3,401	3,770	3,833	4,020	4,186	4,355	4,581	4,892
Miscellaneous operations.....	110	108	82	67	60	52	50	46
General.....	271	357	441	490	534	581	635	678
Net revenue from railway operations.....	2,414	2,466	1,961	2,358	2,166	2,278	2,384	2,254
Tax accruals.....	1,195	1,081	999	916	910	947	1,027	1,068
Operating income.....	1,219	1,385	962	1,442	1,254	1,331	1,357	1,186
Net railway operating income.....	1,040	1,128	584	962	670	678	658	411
Ratio of expenses to revenues (percent).....	74.5	75.6	79.5	76.9	79.1	79.1	79.1	81.2
Expenditures for capital improvements.....	1,065	908	919	1,631	1,523	1,187	1,508	1,351
Equipment.....	779	568	634	1,304	1,148	819	1,089	993
Roadway and structures.....	286	340	286	327	374	369	420	358

## No. 874. RAILROADS, CLASS I LINE-HAUL—SELECTED PASSENGER STATISTICS: 1950 TO 1970

[See text, p. 524, for explanation of class limits. See also *Historical Statistics, Colonial Times to 1957*, series Q 87-89]

ITEM	1950	1955	1960	1965	1968	1969	1970 (prel.)
Average miles of road operated.....	146,468	119,745	94,117	76,993	59,259	56,484	49,533
Passenger revenue..... mil. dol.	813	743	640	553	444	438	420
Revenue per passenger-mile:							
Including commutation passengers..... cents.	2.56	2.60	3.01	3.18	3.38	3.60	3.90
Excluding commutation passengers..... cents.	2.74	2.70	3.03	3.14	3.33	3.63	4.02
Revenue passengers carried..... millions	486	432	326	299	296	296	284
Revenue passenger-miles..... millions	31,760	28,525	21,258	17,389	13,120	12,169	10,770
Average distance..... miles	65.3	66.0	65.2	58.2	44.4	41.1	37.9
Revenue passenger-miles per train-mile.....	88.5	95.2	100.9	100.9	107.0	113.6	112.8
Revenue passenger-miles per car-mile.....	17.0	17.8	19.3	19.5	22.4	24.7	(NA)
Passenger-train miles..... millions	358	299	209	172	123	107	147
Passenger-carrying car-miles..... millions	1,870	1,602	1,101	885	581	489	(NA)
Train-miles per train-hour.....	37.4	39.8	40.7	41.3	41.0	41.0	40.3

NA Not available. <sup>1</sup> January-June.

## No. 875. RAILROADS, CLASS I LINE-HAUL—SELECTED FREIGHT STATISTICS: 1950 TO 1970

[Excludes switching and terminal roads. Tons of 2,000 pounds. See text, p. 524, for explanation of class limits. See also *Historical Statistics, Colonial Times to 1957*, series Q 93]

ITEM	1950	1955	1960	1965	1968	1969	1970
Average miles of road operated.....	225,605	222,901	219,381	212,133	211,181	210,986	209,401
Operating revenue..... mil. dol.	7,817	8,538	8,025	8,836	9,755	10,320	10,916
Per ton-mile..... cents.	1.33	1.37	1.40	1.27	1.31	1.35	1.40
Per ton per road..... dollars.	3.04	3.25	3.51	3.48	3.76	3.86	4.18
Revenue-tons:							
Originated..... millions.	1,354	1,393	1,241	1,387	1,431	(NA)	(NA)
Carried..... millions.	2,570	2,618	2,291	2,539	2,596	2,671	2,614
Carried 1 mile..... millions.	588,578	623,615	572,309	607,736	744,479	767,867	762,644
Average distance..... miles.	229.0	237.6	250.9	274.8	286.8	287.5	291.7
Freight train miles..... millions.	515	476	405	421	429	433	427
Freight train car-miles:							
Loaded <sup>2</sup> ..... millions.	19,644	20,099	17,287	17,885	17,825	17,965	17,800
Empty..... millions.	10,140	11,054	10,872	11,420	12,253	12,366	12,627
Net ton-miles per train-mile <sup>1</sup> .....	1,224	1,074	1,466	1,685	1,768	1,804	1,820
Net ton-miles per loaded car-mile <sup>1</sup> .....	31.7	32.0	33.9	39.7	42.6	45.5	44.9
Train-miles per train-hour.....	16.8	18.6	19.5	20.1	20.4	20.1	20.1

NA Not available. <sup>1</sup> January-June. <sup>2</sup> Revenue and nonrevenue freight.

Source of tables 873-875: Interstate Commerce Commission; *Annual Report*, and *Transport Statistics in the United States*, Part 1, related monthly and quarterly reports, and unpublished data.

**No. 876. RAILROAD COMPANIES, BY CLASS: 1950 TO 1969**

[Prior to 1960, excludes Alaska and Hawaii. See text, p. 524, for explanation of class limits]

CLASS OF COMPANY	1950	1955	1960	1965	1966	1967	1968	1969
<b>Total</b> .....	1,038	1,935	1,842	763	758	753	738	721
Class I line-haul operating.....	127	126	106	76	76	76	75	73
Lessors to class I.....	179	155	128	116	116	115	115	112
Class II line-haul operating.....	171	155	304	302	302	298	287	282
Lessors to class II.....	6	8	8	15	15	15	14	14
Switching and terminal <sup>2</sup> .....	253	237	221	205	202	202	197	193
Proprietary <sup>3</sup> .....	100	67	53	45	44	44	44	41
Unofficial.....	9	6	1	4	3	3	6	6

<sup>1</sup> Includes Alaska and Hawaii for 1950 and 1955, and circular railroads through 1960, not shown separately.  
<sup>2</sup> Includes switching and terminal facilities, and through 1960, circular.  
<sup>3</sup> Includes proprietary, and unofficial companies, and through 1960, circular.  
 which file consolidated reports combining mileage, investment, and other items on a net system basis.

Source: Interstate Commerce Commission; annual reports, *Statistics of Railways in the United States*, and, beginning 1955, *Transport Statistics in the United States*, Part 1.

**No. 877. RAILROADS—EQUIPMENT IN SERVICE: 1950 TO 1969**

[Prior to 1960, excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series Q 53-65]

ITEM	1950	1955	1960	1965	1967	1968	1969
<b>Locomotives</b> .....	42,951	33,533	31,178	30,061	29,874	29,448	29,090
Steam.....	26,680	6,266	374	89	67	-	-
Electric.....	827	639	498	365	324	307	278
Diesel.....	15,396	26,563	30,240	29,552	29,428	29,031	28,711
Other.....	48	65	66	55	55	110	101
New units installed <sup>1</sup> .....	3,215	1,097	389	1,387	987	470	601
<b>Freight cars <sup>2</sup></b> .....	1,745,778	1,723,747	1,690,396	1,515,169	1,510,963	1,484,571	1,464,197
Box.....	718,150	723,962	700,331	593,195	570,957	597,769	597,132
Gondola and hopper.....	874,801	845,809	831,473	753,592	755,444	745,183	726,325
Other.....	162,827	153,976	158,592	168,079	178,562	141,620	140,740
Aggregate capacity <sup>1</sup> .....1,000 tons.....	90,465	91,229	91,948	88,323	93,660	93,540	94,346
Average capacity <sup>1</sup> .....tons.....	52.6	53.7	55.4	59.8	63.4	64.3	65.8
New units installed <sup>1</sup> .....	40,032	29,070	54,032	62,859	60,289	41,228	37,842
<b>Passenger-train cars</b> .....	37,359	32,118	25,746	20,022	17,822	14,816	12,630
Coaches.....	16,488	13,543	10,287	8,086	7,468	6,868	6,680
Average seating capacity <sup>1</sup> .....	75	75	76	76	81	85	87
Nonpassenger (baggage, express, etc.).....	13,817	13,388	10,077	8,411	7,431	6,594	4,082
Other.....	7,054	5,187	5,382	3,525	2,923	1,354	1,868
New units installed <sup>1</sup> .....	1,078	412	251	660	146	65	240

- Represents zero. <sup>1</sup> Class I railroads. <sup>2</sup> Excludes caboose cars.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1.

**No. 878. RAILROADS, CLASS I LINE-HAUL—FUEL AND POWER CONSUMED AND RAILS AND TIES LAID: 1950 TO 1969**

[See text, p. 524, for explanation of class limits. See *Historical Statistics, Colonial Times to 1957*, series Q 128-137, for related data]

ITEM	1950	1955	1960	1965	1967	1968	1969
<b>Fuel and power consumed:</b>							
Coal.....1,000 short tons.....	55,452	11,427	39	4	2	2	1
Fuel oil.....mil. gal.....	2,284	376	89	77	47	42	33
Diesel oil.....mil. gal.....	1,827	3,393	3,472	3,742	3,889	3,922	3,924
Electricity.....mil. kw.-hr.....	2,260	2,082	1,641	1,509	1,411	1,317	1,149
<b>Rails and ties laid: <sup>1</sup></b>							
Rails.....1,000 short tons.....	2,628	2,099	1,068	1,167	1,171	1,228	1,351
Ties:							
Crossties.....1,000.....	33,091	27,173	16,417	16,982	17,458	19,006	20,088
Switch and bridge ties.....1,000 board ft.....	118,091	99,886	63,373	61,739	62,713	61,720	61,856

<sup>1</sup> New and used rails and ties used in replacement, additional tracks, new lines, and extensions.

Source: Interstate Commerce Commission; *Annual Report and Transport Statistics in the United States*, Part 1.



# NO. 879. RAILROADS—MILES OF ROAD OWNED, BY GEOGRAPHIC DIVISION: 1940 TO 1969

[As of December 31. Data are for actual length of line owned by line-haul companies in each State without duplication. For composition of divisions, see fig. 1, p. xii]

DIVISION	1940	1950	1960	1969	DIVISION	1940	1950	1960	1969
U.S.-----	234,398	224,371	217,552	207,005	South Atlantic-----	29,475	27,924	27,562	25,915
New England-----	6,677	6,396	6,088	5,561	E. South Central-----	16,179	15,574	15,233	14,975
Middle Atlantic-----	20,175	19,180	17,460	15,868	W. South Central-----	31,497	29,771	28,341	26,704
E. North Central-----	41,281	39,851	38,949	37,464	Mountain-----	23,518	22,101	21,355	20,471
W. North Central-----	48,293	47,108	46,367	44,574	Pacific-----	17,303	16,466	16,388	15,473

Source: Interstate Commerce Commission; annual reports, *Statistics of Railways in the United States*, and, beginning 1960, *Transport Statistics in the United States*, Part I.

# NO. 880. RAILROADS, CLASS I—CARS OF REVENUE FREIGHT LOADED, 1940 TO 1970, AND BY COMMODITY GROUP, 1970

[In thousands. Figures are 52-week totals. See text, p. 524, for explanation of class limits. "N.e.c." means not elsewhere classified]

YEAR	Total	Cars loaded <sup>1</sup>	COMMODITY GROUP	Number, 1970	COMMODITY GROUP	Number, 1970
1940-----	36,358	(NA)	Coal-----	5,163	Motor vehicles and equipment-----	960
1945-----	41,018	(NA)	Metallic ores-----	1,953	Farm products, except grain-----	828
1950-----	38,993	(NA)	Grain-----	1,468	Lumber and wood prod., n.e.c. <sup>2</sup> -----	742
1955-----	37,696	108		1,457	Waste and scrap materials-----	536
1960-----	30,441	554		1,415	Petroleum products-----	507
1965-----	29,248	1,084		1,361	Nonmetallic minerals, n.e.c.-----	433
1966-----	29,023	1,103	Food and kindred prod., n.e.c.-----	1,301	Coke-----	361
1967-----	28,084	1,297	Primary forest products-----	1,297	Forwarder and shipper association traffic-----	3,396
1968-----	28,253	1,337	Pulp, paper and allied products-----	1,196	All other carloads-----	47
1969-----	28,287	1,344	Stone, clay and glass products-----	1,003	Less than carload-----	
1970-----	27,100	1,295	Grain mill products-----	993		

NA Not available. <sup>1</sup> With highway trailers. <sup>2</sup> Except furniture.

Source: Association of American Railroads, Car Service Division, Washington, D.C.; annual reports, *Cars of Revenue Freight Loaded* and weekly reports, *Revenue Freight Loaded by Commodities* and *Total Received from Connections*.

# NO. 881. CLASS I RAILROADS, 1969, AND MOTOR CARRIERS OF PROPERTY, 1968, REVENUE FREIGHT ORIGINATED, BY COMMODITY GROUP

[In thousands. Tons of 2,000 pounds. See text, p. 524, for explanation of class limits]

COMMODITY GROUPS	RAILROADS, 1969			MOTOR CARRIERS, 1968		
	Carloads	Tons	Revenue <sup>1</sup>	Truckloads	Tons	Revenue <sup>1</sup>
Total-----	27,729	1,473,457	\$10,836,160	17,183	379,780	\$7,522,213
Farm products-----	2,230	119,291	908,251	307	5,787	73,344
Metallic ores-----	1,607	126,436	323,085	33	897	4,789
Coal-----	5,143	383,292	1,190,923	26	573	1,427
Nonmetallic minerals, except fuels-----	2,337	171,391	394,084	359	9,028	25,150
Ordnance and accessories-----	106	4,649	178,253	64	1,172	67,455
Food and kindred products-----	2,753	107,704	1,267,498	1,403	23,176	422,869
Basic textiles-----	67	1,295	34,637	246	3,215	75,908
Lumber and wood products, ex. furniture-----	2,101	99,872	801,670	223	4,012	43,438
	214	1,777	86,551	49	484	18,613
	1,224	42,529	690,497	643	9,847	167,661
	26	729	18,522	134	1,992	42,966
	1,043	92,125	1,087,815	1,075	36,820	491,248
	718	34,579	282,793	2,267	100,232	311,871
	228	3,601	102,319	420	3,409	97,103
Stone, clay and glass products-----	1,359	77,864	514,015	1,285	26,830	173,145
Primary metal products-----	1,578	87,105	810,291	1,643	29,390	384,754
Fabricated metal products <sup>2</sup> -----	420	11,606	204,234	448	6,113	114,915
Machinery, except electrical-----	240	6,488	168,174	409	5,382	163,770
Electrical mch., equip. and supplies-----	326	4,100	150,540	245	3,079	87,826
Transportation equipment-----	1,268	28,848	800,807	2,190	23,755	490,593
Waste and scrap materials-----	847	41,848	219,157	75	1,266	14,007
Freight forwarded traffic-----	291	4,846	163,071	64	680	28,816
Small packaged shipments-----	(X)	837	35,020	(X)	70,617	3,986,417
Other-----	1,002	20,645	404,955	814	12,218	228,205

X Not applicable. <sup>1</sup> Gross. <sup>2</sup> Except ordnance, machinery, and transport.

Source: Interstate Commerce Commission; annual reports, *Freight Commodity Statistics—Class I Railroads in the United States* and *Class I Motor Carriers, Property Operating in the Intercity Service*.

# No. 882. RAILROADS—EMPLOYEES, HOURS, AND COMPENSATION: 1950 TO 1970

[Excludes switching and terminal roads. See also *Historical Statistics, Colonial Times to 1957*, series Q 141-142]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
Classes I and II line-haul railroads: <sup>1</sup>								
Number of employees, average.....1,000.....	<sup>2</sup> 1,237	<sup>2</sup> 1,071	793	655	624	602	590	(NA)
Compensation of employees, total.....mil. dol.....	<sup>2</sup> 4,645	<sup>2</sup> 5,045	4,987	4,887	5,026	5,197	5,451	(NA)
Class I line-haul railroads: <sup>1</sup>								
Number of employees, average.....1,000.....	1,220	1,058	780	640	610	591	578	566
Man-hours paid for.....mil.....	2,877	2,503	1,841	1,565	1,466	1,442	1,414	1,370
Average hours per employee.....	2,357	2,366	2,358	2,445	2,403	2,442	2,446	2,436
Compensation of employees:								
Total.....mil. dol.....	4,594	4,992	4,894	4,793	4,934	5,111	5,363	5,557
Average per hour.....dol.....	1.60	2.00	2.66	3.06	3.36	3.54	3.79	4.03
Average per year.....dol.....	3,765	4,719	6,270	7,490	8,085	8,654	9,279	9,818

NA Not available. <sup>1</sup> See text, p. 524, for explanation of class limits. <sup>2</sup> Excludes Alaska and Hawaii.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1, and related monthly and quarterly reports.

# No. 883. RAILROAD ACCIDENTS—PERSONS KILLED AND INJURED, BY TYPE OF ACCIDENT: 1950 TO 1969

[Prior to 1960, excludes Alaska and Hawaii. Covers all railroads, except as noted. See also headnote, table 883. See also *Historical Statistics, Colonial Times to 1957*, series Q 125-127] accidents, i.e., those resulting in personal casualty by Federal Railroad Administration. See also

TYPE OF ACCIDENT	1950	1955	1960	1965	1967	1968	1969
Killed, number.....	3,398	2,667	2,248	2,399	2,483	2,359	2,299
Injured, number.....	33,255	27,832	19,577	25,789	24,523	24,608	23,856
Train: Killed.....	336	250	156	191	170	142	203
Injured.....	2,315	1,183	847	864	754	1,293	1,173
Train services: Killed.....	2,921	2,316	2,042	2,136	2,238	2,141	2,011
Injured.....	19,454	16,856	12,877	16,577	16,888	16,500	14,986
Nontrain: Killed.....	141	92	50	72	75	76	85
Injured.....	11,486	9,793	5,853	8,348	7,881	7,815	7,197

Source: 1950-1965, Interstate Commerce Commission; annual report, *Accident Bulletin*. Beginning 1967, Dept. of Transportation, Federal Railroad Administration; annual report, *Accident Bulletin*.

# No. 884. HIGHWAY GRADE CROSSINGS—NUMBER AND ACCIDENTS: 1950 TO 1969

Prior to 1960, excludes Alaska and Hawaii. Covers all railroads, except as noted. See also headnote, table 883. See also *Historical Statistics, Colonial Times to 1957*, series Q 125-127]

YEAR	HIGHWAY GRADE CROSSINGS <sup>1</sup>			ACCIDENTS				
	Total	Specially protected <sup>2</sup>	Eliminated by separation of grades	Number <sup>3</sup>	All persons <sup>3</sup>		Involving motor vehicles	
					Number killed	Number injured	Persons killed	Persons injured
1950.....	227,304	35,968	61	4,000	1,576	4,368	1,393	4,206
1955.....	226,318	39,060	84	3,846	1,446	4,014	1,813	3,886
1960.....	224,513	42,267	102	3,195	1,364	3,424	1,264	3,277
1965.....	215,961	44,333	59	3,820	1,534	3,801	1,434	3,663
1967.....	213,723	45,213	132	3,932	1,632	3,812	1,503	3,703
1968.....	211,993	45,502	207	3,816	1,546	3,774	1,424	3,645
1969.....	211,740	46,961	49	3,774	1,490	3,669	1,362	3,556

<sup>1</sup> Class I railroads only. <sup>2</sup> Includes crossings with operated gates or watchmen, or both, during at least part of day; and those with audible or visible signals, or both. Excludes those with fixed signs only.

<sup>3</sup> Excludes nontrain accidents.

Source: Interstate Commerce Commission; annual reports, *Accident Bulletin*, *Statistics of Railways in the United States*, and, beginning 1955, *Transport Statistics in the United States*, Part 1. Beginning 1966, accident data from Dept. of Transportation, Federal Railroad Administration; annual report, *Accident Bulletin*.

## No. 885. PETROLEUM PIPELINE COMPANIES—SUMMARY: 1950 TO 1969

[Prior to 1960, excludes Alaska and Hawaii. Refers to pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission. See *Historical Statistics, Colonial Times to 1967*, series Q 342-344 for miles of line operated and oil originated]

ITEM	1950	1955	1960	1965	1967	1968	1969
Companies reporting.....number..	76	84	87	89	90	97	99
Miles of line operated.....1,000..	129	140	152	161	165	169	171
Gathering lines.....1,000..	48	51	49	47	47	48	46
Trunk lines.....1,000..	81	90	103	116	118	122	125
Investment in carrier property.....mil. dol.	1,656	2,586	3,300	4,178	4,745	5,139	5,379
Investments and special funds.....mil. dol.	101	81	114	59	110	125	147
Cash.....mil. dol.	65	94	94	110	102	101	107
Current assets.....mil. dol.	192	353	393	555	519	562	644
Current liabilities.....mil. dol.	126	185	187	301	354	431	441
Retained income.....mil. dol.	219	432	701	885	873	950	1,037
Capitalization.....mil. dol.	600	1,282	1,439	1,635	1,943	2,130	2,267
Capital stock.....mil. dol.	236	331	384	382	405	431	444
Long-term debt due after 1 year.....mil. dol.	424	951	1,056	1,253	1,538	1,698	1,823
Dividends declared.....mil. dol.	51	101	143	197	229	179	180
Operating revenues.....mil. dol.	442	678	770	904	995	1,023	1,103
Operating expenses.....mil. dol.	265	347	418	515	564	597	643
Net carrier operating income.....mil. dol.	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	380	430	426	461
Other income and deductions.....mil. dol.	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	-39	-53	-53	-71
Ordinary income before income taxes.....mil. dol.	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	349	377	373	390
Federal income taxes on ordinary income.....mil. dol.	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	131	124	112	125
Net income.....mil. dol.	81	153	160	218	3 281	262	273
<b>Oil transported:</b>							
Total received into system.....mil. bbl.	2,766	4,058	4,783	5,868	6,814	7,289	7,755
From connecting carriers.....mil. bbl.	944	1,434	1,636	1,620	1,761	1,883	2,034
Crude oil.....mil. bbl.	879	1,269	1,402	1,385	1,456	1,531	1,637
Products.....mil. bbl.	65	134	234	235	305	352	396
Originated.....mil. bbl.	1,822	2,624	2,147	4,247	5,052	5,407	5,721
Crude oil.....mil. bbl.	1,525	2,038	2,239	2,618	3,017	3,203	3,405
Products.....mil. bbl.	297	586	909	1,629	2,035	2,203	2,316
Total delivered out of system.....mil. bbl.	2,740	4,039	4,783	5,864	6,800	7,269	7,742
To connecting carriers.....mil. bbl.	937	1,444	1,639	1,757	1,890	2,048	2,243
Crude oil.....mil. bbl.	874	1,329	1,400	1,361	1,423	1,528	1,696
Products.....mil. bbl.	63	115	240	396	467	520	546
Terminated.....mil. bbl.	1,803	2,595	3,144	4,107	4,910	5,221	5,499
Crude oil.....mil. bbl.	1,510	1,992	2,253	2,641	3,047	3,188	3,336
Products.....mil. bbl.	293	603	891	1,466	1,863	2,033	2,164
<b>Trunk line movement:</b>							
Crude oil.....mil. bbl.	1,977	2,781	3,091	3,505	3,886	4,273	4,446
Products.....mil. bbl.	360	717	1,124	1,872	2,399	2,560	2,719
<b>Barrel-miles, trunk lines:</b>							
Crude oil.....bbl.	577	839	976	1,121	1,207	1,270	1,322
Products.....bbl.	107	205	304	627	925	952	995
Number of employees, average.....1,000..	26	25	21	17	16	16	16
Compensation of employees.....mil. dol.	115	142	151	141	145	163	169

<sup>1</sup> Includes pipeline taxes; excludes Federal income taxes.

<sup>2</sup> Years prior to 1965 based on a different system of accounts; therefore, comparable data not available.

<sup>3</sup> After extraordinary and prior period items.

Source: Interstate Commerce Commission; annual reports, *Statistics of Oil Pipeline Companies*, and, beginning 1955, *Transport Statistics in the United States*, Part 6.

## Section 22

### Transportation—Air and Water

This section presents statistics on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. The principal sources of these data are the annual *FAA Statistical Handbook of Aviation*, issued by the Federal Aviation Administration; the annual *Waterborne Commerce of the United States* and the *Annual Report of the Chief of Engineers*, Part 2, issued by the Corps of Engineers of the Department of the Army; the monthly and annual *U.S. Waterborne Foreign Trade*, and *U.S. Airborne Foreign Trade*, issued by the Bureau of the Census; and the annual *Merchant Marine Statistics*, issued by the Bureau of Customs.

Data on air transportation are also presented in *Air Transport Facts and Figures*, published annually by the Air Transport Association of America, Washington, D.C. Additional sources of data on water transportation include *A Statistical Analysis of the World's Merchant Fleets*, issued periodically by the Maritime Administration of the Department of Commerce; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York; and the *Annual Summary of Merchant Ships Launched in the World* and the *Register Book* published by Lloyd's Register of Shipping, London, England. The 1821 through 1946, the 1946-1963, the 1964, and the 1965 issues of *Foreign Commerce and Navigation of the United States*, published by the Bureau of the Census, are basic sources of historical data. Data relating to merchandise exports and imports are in section 30 of this *Abstract*, Foreign Commerce and Aid.

**Civil aviation.**—Federal promotion and regulation of civil aviation are carried out by the Federal Aviation Administration and the Civil Aeronautics Board. The Board issues certificates permitting persons to engage in air transportation as a business, fixes air mail rates which they may charge, and may establish maximum and minimum rates for transportation of passengers and goods. It also has the duty of investigating accidents in air transportation.

The principal activities of the Federal Aviation Administration are: Controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment for the airways; and promotion of air safety.

These agencies publish annual operational data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the activity volume in the field of non-air carrier (general aviation) flying; and aircraft production and registration.

**Air carriers and service.**—The term *certificated route air carrier* refers to air carriers holding certificates of public convenience and necessity, issued by the Civil Aeronautics Board, authorizing the performance of scheduled air transportation over specified routes and a limited amount of nonscheduled operations. This general carrier grouping includes the all-purpose carrier (i.e., the so-called passenger/cargo carriers) and the all-cargo carriers, and comprises all of the airlines certificated by the board, except the supplemental air carriers. Certificated route air carriers are often referred to as "scheduled airlines," although they also perform nonscheduled service. *Nonscheduled service* comprises revenue flights that are not operated in regular scheduled service, such as charter flights, and all nonrevenue flights incident to such flights. *Scheduled service* is transport service operated over an air carrier's certificated routes, based on published flight schedules, including extra sections and related nonrevenue flights.

**Vessel shipments, entrances, and clearances.**—Shipments by dry cargo vessels comprise shipments on all types of watercraft except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered only at the first port which it enters in the United States whether or not cargo is unloaded at that port. A vessel is reported as cleared only at the last port at which clearance is made to a foreign port, whether or not it takes on cargo. Army and Navy vessels entering or clearing without commercial cargo and vessels touching at a United States port in distress, or for other temporary causes without discharging cargo, are not included in the figures.

**Units of measurement.**—Cargo tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. However, shipping weight excludes lift and cargo vans and similar substantial outer containers. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. It represents substantially space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Dead-weight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is therefore the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

#### No. 886. SCHEDULED AIR CARRIERS—NUMBER, OPERATING REVENUES, AND EXPENSES: 1955 to 1969

[In millions of dollars, except number of carriers. 1955 not exactly comparable with later years. See also headnote, table 890]

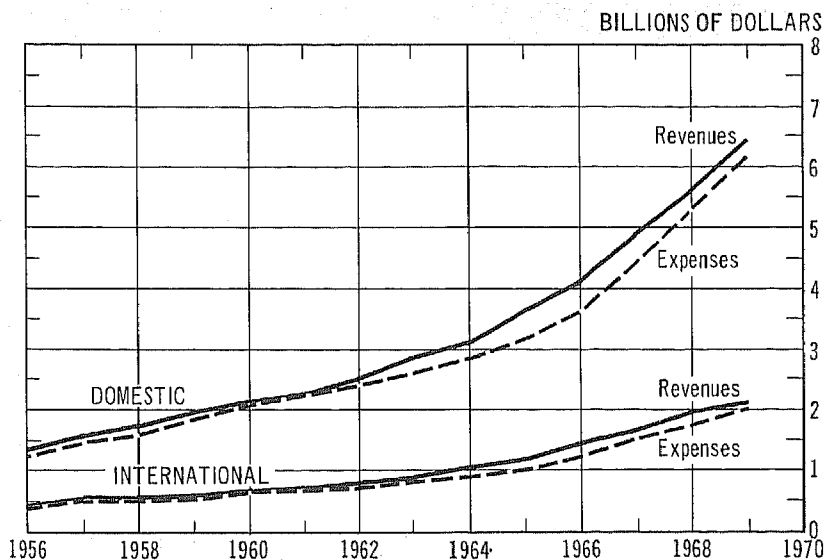
ITEM	1955	1960	1965	1966	1967	1968	1969
<b>DOMESTIC</b>							
Number of air carriers <sup>1</sup> .....	42	42	40	40	39	38	38
Revenues.....	1,215	2,129	3,609	4,070	4,887	5,606	6,439
Passenger.....	1,085	1,860	3,142	3,534	4,280	4,913	5,662
Mail (including subsidy).....	61	113	158	162	170	186	187
Express and freight.....	62	103	220	251	287	343	401
Other.....	27	53	89	123	169	164	189
Expenses.....	1,091	2,091	3,165	3,589	4,476	5,298	6,157
Aircraft.....	559	1,043	1,811	2,008	2,502	2,949	3,438
.....	328	601	855	974	1,229	1,505	1,801
.....	138	258	640	680	832	912	990
.....	93	184	316	353	441	532	647
Ground and indirect.....	532	1,048	1,354	1,582	1,974	2,349	2,719
Net operating income.....	124	38	443	481	411	309	282
<b>INTERNATIONAL</b>							
Number of air carriers <sup>1</sup> .....	9	13	10	10	10	9	9
Revenues.....	398	685	1,199	1,474	1,770	1,950	2,109
Passenger.....	300	528	887	995	1,166	1,309	1,458
Mail (including subsidy).....	30	48	82	132	145	127	128
Express and freight.....	33	59	131	150	164	186	217
Other.....	35	51	99	198	295	328	306
Expenses.....	380	639	1,001	1,221	1,497	1,748	2,012
Aircraft.....	181	304	509	634	792	920	1,039
.....	115	180	263	329	424	495	573
.....	37	58	146	181	212	244	271
.....	29	66	100	124	156	181	195
Ground and indirect.....	200	336	493	586	705	828	973
Net operating income.....	18	45	198	254	273	202	97

<sup>1</sup> Includes all cargo carriers. Each airline is counted only in the group in which the greater portion of its operations prevailed.

Source: Dept. of Transportation, Federal Aviation Administration; *FAA Statistical Handbook of Aviation*. Data from Civil Aeronautics Board.

FIG. XXXVI. OPERATING REVENUES AND EXPENSES OF SCHEDULED AIR CARRIERS: 1956 TO 1969

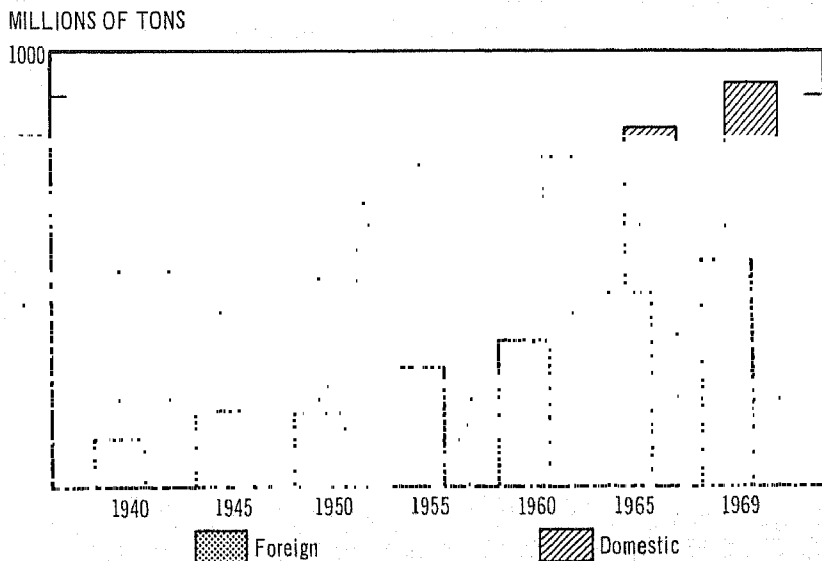
[See table 886]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Federal Aviation Administration.

FIG. XXXVII. WATERBORNE COMMERCE OF THE UNITED STATES: 1940 TO 1969

[See table 899]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of the Army, Corps of Engineers.

## No. 887. SUMMARY OF CIVIL FLYING: 1950 TO 1970

[As of Dec. 31 or for years ending Dec. 31. General aviation flying excludes civil flying performed by public carriers—scheduled, supplemental, contract, or intrastate. See also *Historical Statistics, Colonial Times to 1987*, series Q 370-383 and Q 394-397]

ITEM	1950	1960	1965	1967	1968	1969	1970
Airports in operation <sup>1</sup>	6,403	6,881	9,566	10,126	10,470	11,060	11,261
Public <sup>2</sup>	2,272	2,780	3,570	3,830	3,986	4,155	4,260
Private <sup>2</sup>	4,131	4,101	5,996	6,296	6,484	6,895	7,001
Lighted airports	1,670	2,133	2,878	3,149	3,312	3,430	3,554
Airports with paved runways	1,422	1,893	2,747	3,109	3,353	3,650	3,805
Miles of Federal airways <sup>3</sup>	70,253	178,924	141,856	133,565	137,434	138,450	140,362
Federal aid to airports: <sup>4</sup>							
Cumulative since 1946	mll. dol. (NA)	1,184	1,887	2,193	2,302	2,447	2,453
Federal funds	mll. dol. (NA)	573	935	1,090	1,185	1,198	1,199
Sponsor funds	mll. dol. (NA)	611	952	1,103	1,107	1,249	1,254
Annual Federal funds	mll. dol. (NA)	(NA)	362	72	75	33	1
Annual sponsor funds	mll. dol. (NA)	(NA)	341	69	94	52	5
Total civil aircraft <sup>5</sup>	92,809	111,580	142,078	166,598	179,285	190,749	(NA)
Eligible aircraft	60,921	78,760	97,741	116,781	127,164	133,814	(NA)
Air carriers, total <sup>6</sup>	(NA)	2,211	2,299	2,595	2,927	3,008	(NA)
General aviation aircraft	(NA)	76,549	95,442	114,186	124,237	130,806	(NA)
Fixed-wing aircraft:							
Multi-engine	(NA)	7,243	11,977	14,651	16,760	18,111	(NA)
Single-engine, 4-place and over	(NA)	34,829	49,789	56,865	60,977	63,703	(NA)
Single-engine, 3-place and less	(NA)	33,472	31,364	39,675	42,830	45,001	(NA)
Rotorcraft <sup>7</sup>	(NA)	634	1,503	1,899	2,350	2,657	(NA)
Other <sup>7</sup>	(NA)	371	809	1,096	1,320	1,434	(NA)
Active airman certificates held <sup>8</sup>	(NA)	549,119	719,137	894,153	972,207	989,803	1,022,410
Pilot <sup>9</sup>	(NA)	348,062	479,770	617,931	691,695	720,028	732,729
Airline transport	(NA)	18,279	22,440	25,817	28,607	31,442	34,430
Commercial	(NA)	89,004	116,065	150,135	164,458	176,686	186,821
Private	(NA)	138,869	166,303	253,312	281,728	299,491	303,779
Student	(NA)	44,591	99,182	139,172	181,287	209,406	203,620
Hours flown (general aviation)	1,000	10 9,650	13,121	16,733	22,163	24,053	26,351
Business <sup>11</sup>	1,000	2,750	5,699	5,857	6,578	6,976	7,064
Commercial <sup>12</sup>	1,000	1,500	2,365	3,348	3,918	4,810	4,928
Instructional	1,000	3,000	1,828	3,346	6,262	6,494	7,023
Personal	1,000	2,300	3,172	4,016	5,173	5,532	6,990
Other	1,000	100	57	166	222	241	337
Miles flown (general aviation)	millions	10 1,062	1,769	2,562	3,440	3,701	3,926
Business <sup>11</sup>	millions	340	881	1,204	1,431	1,406	1,426
Commercial <sup>12</sup>	millions	181	299	461	569	666	723
Instructional	millions	287	194	350	713	814	910
Personal	millions	244	387	512	691	777	829
Other	millions	11	8	26	36	37	38
Fuel consumed (general aviation):							
Gasoline	1,000 gal.	10 131,200	242,417	291,841	396,234	494,987	521,980
Jet fuel	1,000 gal.	-	-	55,756	99,776	115,460	167,575
Oil	1,000 gal.	10 2,916	3,910	4,554	6,220	(NA)	(NA)
Domestic air cargo, revenue ton-miles flown <sup>13</sup>	millions	239	724	1,661	2,167	2,327	2,581
Scheduled carriers	millions	211	476	1,112	1,498	1,775	2,126
Nonscheduled carriers <sup>14</sup>	millions	18	135	330	404	248	365
Supplemental carriers <sup>15</sup>	millions	13	112	220	264	305	278
Aircraft accidents <sup>16</sup>		4,595	4,883	5,279	6,185	5,040	4,830
Air carrier <sup>17</sup>		90	90	83	70	72	63
Fatal		11	17	9	12	16	10
Fatalities		205	499	261	286	351	158
General aviation		4,505	4,793	5,196	6,115	4,968	4,767
Fatal		499	420	538	603	692	621
Fatalities		871	787	1,029	1,228	1,399	1,270

- Represents zero. NA Not available.

<sup>1</sup> Existing airports and airfields recorded with FAA. Includes military airports with joint civil and military use. Beginning 1960, includes Puerto Rico, American Samoa, Canton, Guam, Virgin Islands, and Wake Island.

<sup>2</sup> Airport type definitions: Public—public use and public services, public control; Private—(a) public use and public services, private control, and (b) no public services, private control, military control, or Federal Government control. <sup>3</sup> Includes outlying areas of the United States.

<sup>4</sup> Includes gliders; beginning 1960, dirigibles and balloons.

<sup>5</sup> Registered, not necessarily in operation. Includes helicopters.

<sup>6</sup> Includes autogiros; excludes air carrier helicopters. <sup>7</sup> Includes gliders, blimps, and balloons.

<sup>8</sup> Includes nonpilot technicians and flight instructors, not shown separately.

<sup>9</sup> Includes helicopter, glider, and other pilots, not shown separately. <sup>10</sup> Excludes Alaska and Hawaii.

<sup>11</sup> Corporation and individual business transportation, not for hire.

<sup>12</sup> Passenger and cargo transportation for hire, aerial application (crop dusting, spraying, seeding, etc.), patrol, survey, and other miscellaneous work use. <sup>13</sup> Comprises express and freight ton-miles.

<sup>14</sup> Includes some military ton-miles and may include a small amount of international traffic.

<sup>15</sup> Civil and military. <sup>16</sup> Beginning 1968, data not strictly comparable due to change of definition.

<sup>17</sup> Excludes commercial operators.

Source: Dept. of Transportation, Federal Aviation Administration; FAA *Statistical Handbook of Aviation*. Includes data from Civil Aeronautics Board and National Transportation Safety Board.

## No. 888. CIVIL AIRCRAFT, 1969, AND AIRPORTS AND FEDERAL-AID AIRPORT PROGRAM, 1970, BY STATES AND OTHER AREAS

[As of December 31, except as noted]

STATE OR OTHER AREA	Active aircraft, civil, 1969 <sup>1</sup>	1970				STATE OR OTHER AREA	Active aircraft, civil, 1969 <sup>1</sup>	1970			
		Airports <sup>2</sup>		Federal-aid air- port program <sup>3</sup> (mil. dol.)				Airports <sup>2</sup>		Federal-aid air- port program <sup>3</sup> (mil. dol.)	
		Pub- lic	Priv- ate	Total	Federal funds			Pub- lic	Priv- ate	Total	Federal funds
Total.....	133,814	4,260	7,001	2,452.6	1,198.6	Mo. ....	3,395	98	188	69.6	33.2
Ala. ....	2,262	87	41	39.6	20.0	Mont. ....	1,461	115	64	21.1	11.1
Alaska ..	2,272	497	211	69.2	44.5	Nebr. ....	1,763	82	177	26.6	12.7
Ariz. ....	2,197	102	113	31.2	17.4	Nev. ....	972	51	51	20.0	12.2
Ark. ....	1,588	73	71	22.8	11.4	N.H. ....	445	16	36	6.2	3.0
Calif. ....	17,643	264	466	222.4	106.3	N.J. ....	2,798	25	169	48.9	20.9
Colo. ....	2,236	75	134	37.9	19.8	N. Mex. ....	1,181	65	62	15.1	8.4
Conn. ....	1,140	13	65	19.6	9.6	N. Y. ....	6,130	64	350	184.9	83.1
Del. ....	561	3	23	2.0	1.0	N. C. ....	2,445	56	154	40.9	20.5
D. C. ....	813	5	1	-	-	N. Dak. ....	1,005	85	99	13.2	6.3
Fla. ....	5,454	110	181	106.1	50.0	Ohio ....	5,619	101	346	84.0	41.1
Ga. ....	2,891	105	97	85.2	40.9	Okla. ....	2,972	107	123	54.9	27.5
Hawaii ..	226	24	35	45.9	15.2	Oreg. ....	2,684	97	124	26.0	13.8
Idaho ....	1,102	122	44	10.6	5.9	Pa. ....	4,244	67	408	121.1	59.4
Ill. ....	5,800	79	520	150.2	69.6	R. I. ....	202	7	7	10.3	5.2
Ind. ....	3,373	61	118	42.2	20.4	S. C. ....	1,051	60	53	18.6	9.3
Iowa ....	2,588	102	134	35.8	17.5	S. Dak. ....	892	67	46	12.2	6.4
Kans. ....	2,896	113	157	20.6	10.1	Tenn. ....	1,933	66	42	69.7	29.8
Ky. ....	980	47	22	43.0	21.5	Texas. ....	10,055	253	729	139.8	69.7
La. ....	2,082	69	152	48.1	23.3	Utah. ....	772	57	24	10.7	12.1
Maine ....	596	43	96	10.8	5.4	Vt. ....	267	13	31	4.7	2.3
Md. ....	1,549	17	64	21.1	10.6	Va. ....	1,727	49	136	33.1	16.4
Mass. ....	1,919	26	92	48.8	23.7	Wash. ....	3,323	105	135	38.2	18.9
Mich. ....	5,566	129	176	76.7	35.6	W. Va. ....	586	22	25	25.8	11.8
Minn. ....	3,447	132	130	52.5	25.3	Wis. ....	2,432	101	155	47.7	22.4
Miss. ....	1,393	67	85	24.5	12.2	Wyo. ....	600	41	39	9.1	5.2
						Other areas <sup>4</sup> ..	496	25	10	34.4	18.7

- Represents zero. <sup>1</sup> Includes gliders, dirigibles, and balloons.<sup>2</sup> Includes military airports with joint civil and military use.<sup>3</sup> Cumulative since enactment of Federal Airport Act, May 16, 1946, through Dec. 31, 1970.<sup>4</sup> Comprises Puerto Rico, American Samoa, Canton, Guam, Virgin Islands, and Wake Island.Source: Dept. of Transportation, Federal Aviation Administration; *FAA Statistical Handbook of Aviation*.

## No. 889. SCHEDULED AIR CARRIERS—AVAILABLE SERVICE AND UTILIZATION, AND TRAFFIC CARRIED: 1950 TO 1970

[In millions, except percent]

ITEM	1950	1955	1960	1965	1966	1967	1968	1969	1970
<b>SERVICE AND UTILIZATION</b>									
Available ton-miles <sup>1</sup>	2,426	5,289	9,384	19,661	23,503	30,785	37,223	42,779	44,265
Revenue ton-miles <sup>1</sup>	1,398	3,088	5,024	9,895	12,441	15,684	18,114	19,989	20,187
Ton-mile load factor.....percent.	57.6	58.4	53.5	50.3	52.9	50.9	48.7	46.7	45.6
Available seat-miles	16,842	38,574	65,567	124,320	137,845	174,819	216,446	250,846	264,904
Revenue passenger-miles	10,243	24,351	38,863	68,677	79,889	98,747	113,958	125,414	131,710
Passenger load factor.....percent.	60.8	63.1	59.3	55.2	58.0	56.5	52.6	50.0	49.7
Revenue plane-miles	477	780	998	1,364	1,482	1,834	2,146	2,385	2,415
<b>TRAFFIC CARRIED (revenue ton-miles)</b>									
<b>Total</b>	<b>1,398</b>	<b>3,088</b>	<b>5,024</b>	<b>9,895</b>	<b>12,441</b>	<b>15,684</b>	<b>18,114</b>	<b>19,989</b>	<b>20,187</b>
Passenger <sup>2</sup>	1,014	2,397	3,777	6,672	7,774	9,600	11,071	12,197	13,172
U.S. mail:									
Priority	69	128	202	372	543	567	582	577	606
Nonpriority		15	30	111	209	409	675	768	884
Express		51	59	90	98	99	105	109	107
Freight	238	383	643	1,730	2,051	2,351	2,805	3,246	3,408
Charter flights	40	106	296	909	1,755	2,648	2,895	3,091	2,020
Foreign mail	8	8	9	10	11	10	11	11	10

<sup>1</sup> Includes charter operations. <sup>2</sup> A passenger ton-mile represents 1 ton of passenger weight, including free and excess baggage, transported 1 mile.Source: Air Transport Association of America, Washington, D.C.; *Air Transport Facts and Figures*.



## No. 890. SCHEDULED AIR CARRIERS—SUMMARY OF OPERATIONS: 1950 TO 1970

[As of Dec. 31 or for calendar years, except as noted. Operations between coterminous U.S. and Hawaii, Puerto Rico, and outlying areas included with international. Intra-Alaska included with domestic carriers and Mainland-Alaska with international, as follows: Number of operators and traffic data, for all years; fuel and financial data, beginning 1955; and personnel data, beginning 1960. See also *Historical Statistics, Colonial Times to 1957*, series Q 352, Q 354-362, and Q 384-393]

ITEM	1950	1955	1960	1965	1968	1969	1970
Domestic operators <sup>1</sup>	48	40	39	40	33	33	(NA)
International operators <sup>1</sup>	6	7	10	9	4	4	(NA)
Total personnel employed <sup>2</sup>	82,786	122,203	162,771	206,834	295,025	309,311	(NA)
Domestic	61,903	95,848	133,717	169,962	244,742	255,357	(NA)
International	20,883	26,656	29,054	36,882	50,283	53,954	(NA)
Route miles in operation <sup>3</sup>	183,841	186,274	249,717	248,294	270,798	300,018	(NA)
Domestic	77,440	78,992	101,414	104,870	116,678	131,434	(NA)
International	106,401	117,282	148,303	143,424	154,120	178,584	(NA)
Aircraft in operation <sup>3</sup>	1,220	1,409	1,867	1,896	2,317	2,393	2,390
Fixed wing	1,209	1,390	1,842	1,875	2,301	2,345	2,374
Four-engine		679	1,160	1,055	928	886	905
Three-engine turbojet				168	516	601	627
Twin-engine	(NA)	709	677	615	835	867	825
Single-engine		2	5	37	22	12	14
Average available seats: <sup>4</sup>							
Domestic	37.5	51.2	65.5	89.2	100.8	109.8	110.4
International	41.0	56.4	89.9	120.1	135.6	121.9	154.9
Average speed (miles per hour):							
Domestic	180	208	235	314	373	394	350
International	218	244	307	451	476	477	482
Fuel consumed:							
Gasoline mil. gal.	572	1,170	1,127	489	122	119	(NA)
Domestic mil. gal.	418	912	922	448	113	27	(NA)
International mil. gal.	154	258	205	41	9	92	(NA)
Jet fuel:							
Domestic mil. gal.	-	2	988	3,368	6,455	7,885	(NA)
International mil. gal.	-	-	343	1,195	2,267	1,910	(NA)
Revenue-miles flown (all scheduled services)							
Domestic mil.	464	763	983	1,336	2,124	2,370	2,395
International mil.	370	627	821	1,088	1,716	2,011	2,025
Revenue passengers carried							
Domestic mil.	95	135	163	248	408	359	370
International mil.	19	42	62	103	162	172	169
Domestic mil.	17	38	50	92	146	158	153
International mil.	2	3	6	11	16	14	16
Revenue passenger-miles flown:							
Domestic millions	8,007	19,852	30,567	51,887	87,508	102,717	104,156
International millions	2,214	4,499	8,306	16,789	26,451	22,703	27,563
Average passenger-mile rate:							
Domestic	\$0.0554	\$0.0536	\$0.0609	\$0.0606	\$0.0561	\$0.0590	(NA)
International	.0728	.0666	.0635	.0520	.0495		(NA)
Express and freight, ton-miles flown							
Domestic mil.	213	326	579	1,540	2,506	3,063	3,168
International mil.	152	230	387	943	1,579	2,126	2,216
Mail, ton-miles flown:							
Domestic mil.	61	96	192	597	927	937	942
Domestic mil.	48	89	136	226	584	806	715
International mil.	26	61	103	254	679	463	548
Accidents (revenue operations): <sup>5</sup>							
Domestic, total	36	41	62	55	44	37	33
Fatal	4	8	10	6	11	7	1
Fatalities <sup>10</sup>	109	221	363	223	288	152	1
Passenger-fatalities per 100 million passenger-miles flown <sup>11</sup>	1.2	0.8	0.9	0.4	(Z)	0.13	-
International, total	5	5	8	1	10	11	8
Fatal	2	1	2	1	2	-	1
Fatalities <sup>10</sup>	56	4	15	30	57	-	2
Passenger-fatalities per 100 million passenger-miles flown	2.1	(Z)	0.1	0.1	0.2	-	(Z)

- Represents zero. NA Not available. Z Less than 0.05. <sup>1</sup> Excludes all-cargo operators.

<sup>2</sup> For types of personnel, see table 891. <sup>3</sup> Not compiled for intra-Alaska.

<sup>4</sup> As of Dec. 31, based on fourth quarter.

<sup>5</sup> Represents aircraft of the certificated route air carriers; excludes those used for crew training and general aviation, and aircraft operated by the scheduled all-cargo carriers.

<sup>10</sup> Includes 2 midair collisions nonfatal to air carrier occupants; excluded in computation of fatal accidents.

<sup>11</sup> Excludes crew members.

<sup>12</sup> Excludes passenger deaths occurring in dynamite accidents, as follows: Nov. 1, 1955, 39; Jan. 6, 1960, 29.

Source: Dept. of Transportation, Federal Aviation Administration; *FAA Statistical Handbook of Aviation*. Includes data from Civil Aeronautics Board.

# Scheduled and Supplemental Air Carriers—Employment 557

## No. 891. SCHEDULED AIR CARRIERS—PERSONNEL AND PAYROLL: 1965, 1968, AND 1969

[As of December 31 or for calendar years. See also headnote, table 890]

TYPE OF PERSONNEL	1965			1968			1969		
	Number (1,000)	Payroll (mil. dol.)	Average salary	Number (1,000)	Payroll (mil. dol.)	Average salary	Number (1,000)	Payroll (mil. dol.)	Average salary
<b>Total domestic</b> <sup>1</sup> .....	170.0	1,449	\$8,525	244.7	2,431	\$9,932	255.4	2,784	\$10,902
Pilots and copilots.....	14.5	289	19,946	21.2	520	24,568	23.0	604	26,205
Other flight personnel.....	8.9	53	13,468	7.0	104	14,936	6.8	120	17,558
Purser, stewards, stewardesses.....	14.2	73	5,144	24.3	147	6,948	28.2	182	6,472
Communications personnel.....	2.0	13	6,448	2.3	16	7,199	2.2	17	7,861
Mechanics <sup>2</sup> .....	35.4	282	7,985	43.9	409	9,311	44.8	464	10,359
Aircraft and traffic servicing.....	45.8	331	7,223	66.4	557	8,394	69.4	639	9,204
Office employees.....	34.6	239	6,924	51.0	397	7,771	51.8	447	8,630
<b>Total international</b> <sup>1</sup> .....	36.9	269	7,294	50.3	435	8,656	54.0	512	9,492
Pilots and copilots.....	1.9	42	21,758	2.8	73	26,146	2.7	83	31,220
Other flight personnel.....	0.8	13	17,110	1.2	24	19,753	1.3	25	18,412
Purser, stewards, stewardesses.....	3.0	19	6,257	4.0	34	7,283	4.8	41	8,507
Communications personnel.....	1.1	5	4,295	1.1	6	5,484	1.1	6	5,797
Mechanics <sup>2</sup> .....	6.3	42	7,853	6.9	61	8,840	7.3	74	10,248
Aircraft and traffic servicing.....	10.8	61	5,698	15.2	102	6,738	15.6	106	6,846
Office employees.....	9.0	53	5,919	11.7	80	6,878	11.8	86	7,246

<sup>1</sup> Includes personnel not shown separately.    <sup>2</sup> Includes other maintenance personnel.

## No. 892. SUPPLEMENTAL AIR CARRIERS—SUMMARY OF OPERATIONS: 1955 TO 1969

[Refers to carriers operating by authority of letters of registration granted by the Civil Aeronautics Board. Includes international operations; see headnote, table 890. Figures shown for military cover activities performed under charter or other contract with the Department of Defense]

ITEM	1955	1960	1965	1966	1967	1968	1969
Number of operators.....1,000..	50	30	13	13	13	13	14
Revenue passenger-miles.....mil..	1,396	2,208	2,489	4,125	5,997	8,886	11,145
Commercial.....mil..	716	671	1,069	1,554	2,572	4,332	6,075
Military.....mil..	680	1,537	1,420	2,572	3,425	4,554	5,070
Revenue cargo ton-miles.....mil..	75	120	298	425	442	446	449
Commercial.....mil..	21	5	49	54	47	62	90
Military.....mil..	53	115	249	371	395	384	359
Operating revenue.....\$1,000..	76,824	83,447	140,981	209,250	258,631	325,522	361,416
Operating expenses.....\$1,000..	73,067	85,295	116,906	172,272	223,165	282,336	356,218
Operating profit or loss.....\$1,000..	3,757	-1,849	24,075	36,978	35,466	43,186	5,198

Source of tables 891 and 892: Dept. of Transportation, Federal Aviation Administration; *FAA Statistical Handbook of Aviation*. Data from Civil Aeronautics Board.

## No. 893. EMPLOYMENT, HOURS, AND EARNINGS IN AIRCRAFT INDUSTRIES—ANNUAL AVERAGES: 1950 TO 1970

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
<b>Employment, total</b> .....1,000..	283	761	674	619	825	849	805	690
Aircraft.....1,000..	188	467	371	330	469	494	479	388
Aircraft engines and parts.....1,000..	57	168	171	188	220	209	196	180
Other aircraft parts and equipment.....1,000..	38	127	132	101	137	147	130	122
<b>Hours and earnings:</b>								
Average weekly hours:								
Aircraft industries.....	41.4	41.4	40.6	41.2	42.2	41.9	41.9	41.0
Aircraft engines and parts industries.....	41.7	40.6	41.1	42.1	42.5	41.4	40.9	40.5
Average weekly earnings:								
Aircraft industries.....	\$67	\$90	\$110	\$130	\$147	\$153	\$153	\$171
Aircraft engines and parts industries.....	\$69	\$86	\$112	\$133	\$146	\$151	\$158	\$166
Average hourly earnings:								
Aircraft industries.....	\$1.62	\$2.17	\$2.71	\$3.16	\$3.49	\$3.64	\$3.90	\$4.17
Aircraft engines and parts industries.....	\$1.66	\$2.13	\$2.73	\$3.17	\$3.42	\$3.65	\$3.87	\$4.10

Source: Dept. of Transportation, Federal Aviation Administration; *FAA Statistical Handbook of Aviation*. Data from Dept. of Labor, Bureau of Labor Statistics.

## No. 894. CIVIL AIRCRAFT SHIPMENTS: 1950 TO 1970

[Represents manufacturers' shipments of complete aircraft. Includes both domestic and export output]

ITEM	1950	1955	1960	1965	1966	1967	1968	1969	1970
<b>Total</b> .....	<b>3,520</b>	<b>4,820</b>	<b>8,181</b>	<b>12,646</b>	<b>16,397</b>	<b>14,479</b>	<b>14,969</b>	<b>13,600</b>	<b>8,190</b>
Transports.....	120	113	238	221	322	500	702	509	313
General aviation.....	3,391	4,563	7,726	12,053	15,723	13,536	13,749	12,581	7,381
Single-engine:									
1- to 3-place.....	(NA)	786	1,366	3,545	5,744	4,873	4,507	4,447	1,981
4-place and over.....	(NA)	2,969	5,072	6,478	7,482	6,657	6,972	5,746	4,048
Multiengine.....	(NA)	808	1,288	2,030	2,497	2,006	2,270	2,388	1,352
Rotorcraft.....	(NA)	144	217	372	352	443	518	510	496

NA Not available.

## No. 895. AIRCRAFT—BACKLOG, NEW ORDERS, AND SALES: 1965 TO 1969

[Reported by manufacturers of complete aircraft, aircraft engines, and propellers]

ITEM	1965		1967		1968		1969	
	Total (mil. dol.)	Percent military	Total (mil. dol.)	Percent military	Total (mil. dol.)	Percent military	Total (mil. dol.)	Percent military
Net new orders.....	22,183	53.2	26,900	62.8	27,108	55.5	22,005	61.2
Aircraft and parts <sup>1</sup> .....	7,951	44.4	10,907	54.7	11,021	42.8	8,702	53.4
Aircraft engines and parts.....	2,690	66.6	3,266	(NA)	2,604	54.2	2,483	58.0
Missiles and parts.....	6,739	52.0	7,318	75.7	6,453	72.2	4,867	69.7
Other products and services.....	4,803	(X)	5,419	(X)	6,430	(X)	5,956	(X)
Net sales.....	17,016	59.2	23,444	61.6	25,592	59.3	24,048	62.6
Aircraft and parts <sup>1</sup> .....	5,343	63.5	9,082	58.9	10,885	52.3	9,899	54.4
Aircraft engines and parts.....	1,714	66.0	2,812	63.9	2,905	57.8	2,865	62.1
Missiles and parts.....	5,819	52.4	6,054	63.2	6,076	70.4	5,660	75.6
Other products and services.....	4,140	(X)	5,496	(X)	5,660	(X)	5,224	(X)
Backlog, Dec. 31.....	20,385	57.5	30,722	54.3	30,749	51.5	28,297	48.9
Aircraft and parts <sup>1</sup> .....	8,885	50.2	16,377	43.2	16,608	36.1	15,610	33.8
Aircraft engines and parts.....	2,503	65.8	4,251	100.0	3,951	54.4	3,578	50.8
Missiles and parts.....	5,480	57.7	5,704	76.1	5,083	86.0	4,338	85.7
Other products and services.....	3,517	(X)	4,390	(X)	5,107	(X)	4,771	(X)

X Not applicable. <sup>1</sup> Includes propeller and propeller parts.Source of tables 894 and 895: Dept. of Transportation, Federal Aviation Administration; *FAA Statistical Handbook of Aviation*. Includes data from Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*.

## No. 896. EXPORTS OF AIRCRAFT AND AIRCRAFT PARTS AND ACCESSORIES: 1960 TO 1970

[Value in millions of dollars. See *Historical Statistics, Colonial Times to 1957*, series Q 349-350, for number and value of aircraft exported]

ITEM	1960		1965		1969		1970 (prel.)	
	Number of units	Value	Number of units	Value	Number of units	Value	Number of units	Value
<b>Aircraft, parts, and accessories</b> .....	(X)	1,329	(X)	1,798	(X)	2,849	(X)	2,846
Commercial and civilian aircraft <sup>1</sup> .....	2,386	537	3,129	477	3,322	1,235	2,602	1,321
Cargo transports, new.....	-	-	4	15	3	14	8	37
Passenger transports, new.....	(NA)	(NA)	61	262	145	707	131	947
Passenger/cargo combinations, new.....	(NA)	(NA)	12	76	34	219	21	127
Personal and utility type:								
Single engine, new.....	1,527	24	2,031	31	1,762	35	1,326	28
Multiple engine, new.....			426	38	700	91	492	74
Rotary wing, new.....	82	8	177	16	264	31	290	24
Used, rebuilt, modified, or converted <sup>2</sup> .....	565	26	406	30	384	139	312	84
Internal combustion engines, new.....	1,464	4	1,684	7	2,524	11	2,334	12
Aircraft engines, used.....	1,558	10	1,273	10	899	8	816	7
Aircraft components, parts, and access.....	(X)	778	(X)	1,303	(X)	1,594	(X)	1,506

- Represents zero. NA Not available. X Not applicable.

<sup>1</sup> Through 1965, includes new aircraft not elsewhere classified, not shown separately.<sup>2</sup> Aircraft only; includes aircraft changed from military to nonmilitary type.Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M37G.

# Airborne Imports and Exports—International Transportation 559

**No. 897. SUMMARY OF AIRBORNE IMPORTS AND EXPORTS—SHIPPING WEIGHT, 1965, 1968, AND 1969, AND VALUE, 1965 AND 1969**

[Weight in millions of pounds, value in millions of dollars, except as indicated. Includes trade of Puerto Rico]

CONTINENT AND CUSTOMS DISTRICT	IMPORTS					EXPORTS				
	Weight			Value		Weight			Value	
	1965	1968	1969	1965	1969	1965	1968	1969	1965	1969
<b>Total, all carriers <sup>1</sup></b>	<b>192.3</b>	<b>430.6</b>	<b>614.0</b>	<b>1,316</b>	<b>3,190</b>	<b>457.3</b>	<b>657.5</b>	<b>866.8</b>	<b>2,289</b>	<b>5,263</b>
North America	33.1	70.5	90.3	125	280	127.3	183.8	213.9	366	738
South America	19.8	21.3	29.5	48	87	71.3	77.9	100.7	194	378
Europe	111.5	253.9	377.1	920	2,081	182.0	303.2	422.1	1,284	2,975
Asia	26.7	80.2	111.4	171	684	29.1	61.2	88.2	236	810
Australia and Oceania	0.4	2.3	3.2	6	27	5.0	13.1	14.5	52	116
Africa	0.8	1.8	2.3	11	30	7.4	14.6	21.0	38	112
<b>U.S. carriers <sup>1</sup></b>	<b>95.7</b>	<b>198.7</b>	<b>277.7</b>	<b>586</b>	<b>1,417</b>	<b>175.6</b>	<b>254.1</b>	<b>337.2</b>	<b>867</b>	<b>1,800</b>
Percent of all carriers	50.0	46.1	45.2	44.5	44.4	38.4	38.6	38.9	37.9	34.2
North America	15.7	35.0	39.9	50	140	56.5	89.8	106.0	147	386
South America	6.4	9.1	11.5	22	43	19.2	27.9	34.3	64	111
Europe	55.6	101.9	158.0	392	817	63.8	101.6	149.7	446	924
Asia	17.6	51.6	66.9	111	397	15.1	25.3	36.1	106	328
Australia and Oceania	(2)	0.8	0.8	2	12	1.1	3.7	3.0	10	23
Africa	0.3	0.5	0.6	3	8	3.0	3.9	5.0	16	28
<b>Customs district:</b>										
New York	113.1	217.2	302.8	977	1,905	224.8	332.7	400.2	1,396	2,871
Florida	26.7	40.9	54.3	48	84	116.1	115.5	146.5	214	347
Los Angeles	7.4	18.3	31.6	56	246	9.4	26.5	38.2	97	476
San Francisco	10.3	32.7	37.7	68	246	16.9	23.8	29.0	159	316
Chicago	10.0	16.7	32.0	65	248	26.8	34.1	55.4	138	303
Other	24.8	104.8	155.7	101	461	63.4	125.0	197.6	286	950

<sup>1</sup> Less than 50,000 pounds.

<sup>1</sup> Beginning 1968, exports include "Special Category" commodities not shown separately.

Source: Dept. of Commerce, Bureau of the Census; annual report, FT 936, *United States Airborne Foreign Trade*.

## No. 898. UNITED STATES RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANSPORTATION: 1950 TO 1970

[In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1223). Receipts include freight on exports carried by U.S. operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (-) denotes excess of payments over receipts. See *Historical Statistics, Colonial Times to 1957*, series U 170 and U 177, for totals]

ITEM	1950	1955	1960	1965	1966	1967	1968	1969	1970 (prel.)
<b>Total receipts</b>	<b>1,033</b>	<b>1,406</b>	<b>1,782</b>	<b>2,414</b>	<b>2,608</b>	<b>2,790</b>	<b>2,969</b>	<b>3,131</b>	<b>3,665</b>
Ocean transportation	859	1,137	1,337	1,731	1,843	1,851	1,935	1,956	2,265
Export freight earnings	380	448	428	519	531	530	547	529	622
Freight earnings on shipments between foreign countries	110	106	136	153	137	144	143	134	186
Passenger fares	20	23	19	9	10	8	6	8	2
Port expenditures	313	548	746	1,041	1,154	1,162	1,233	1,274	1,424
Charter hire	36	12	8	9	11	7	6	11	31
Air transportation	108	183	358	571	653	820	907	1,058	1,261
Export freight earnings	17	33	55	91	112	126	127	160	192
Passenger fares	68	97	156	262	307	363	405	441	572
Port expenditures	23	53	147	219	284	331	375	457	497
Other transportation	66	86	87	112	112	119	127	117	139
<b>Total payments</b>	<b>818</b>	<b>1,204</b>	<b>1,915</b>	<b>2,675</b>	<b>2,922</b>	<b>2,993</b>	<b>3,269</b>	<b>3,608</b>	<b>4,032</b>
Ocean transportation	643	946	1,333	1,806	1,933	1,879	2,038	2,127	2,404
Import freight payments	295	480	780	1,083	1,187	1,164	1,281	1,327	1,460
Passenger fares	121	138	212	210	200	195	190	215	246
Port expenditures	138	153	167	281	294	271	289	281	312
Charter hire	89	175	174	232	252	240	278	304	386
Air transportation	106	183	504	776	806	1,020	1,136	1,384	1,531
Import freight payments	2	7	22	40	47	58	78	127	129
Passenger fares	26	68	301	510	555	635	695	850	930
Port expenditures	78	108	181	225	284	327	363	407	472
Other transportation	69	75	78	93	93	94	96	97	97
<b>Receipts balance</b>	<b>215</b>	<b>202</b>	<b>-133</b>	<b>-261</b>	<b>-314</b>	<b>-203</b>	<b>-300</b>	<b>-477</b>	<b>-367</b>

Source: Dept. of Commerce, Office of Business Economics; monthly report, *Survey of Current Business*.

# No. 899. WATERBORNE COMMERCE, FOREIGN AND DOMESTIC—CARGO TONNAGE: 1940 TO 1969

[In millions of short tons. Includes Puerto Rico and outlying areas. Import and export figures differ slightly from those shown in tables 901 and 902, due to minor differences in basic concepts which are explained in the source. See also *Historical Statistics, Colonial Times to 1957*, series Q 216-229]

CLASS	1940	1945	1950	1955	1960	1965	1968	1969
Net total.....	608	619	821	1,016	1,100	1,273	1,396	1,449
Foreign commerce.....	111	172	169	271	339	444	508	521
Imports, through seaports.....	41	45	96	144	198	245	270	296
Exports, through seaports.....	50	100	44	95	105	142	167	169
Imports, Great Lakes ports.....	4	7	6	9	13	25	32	26
Exports, Great Lakes ports.....	17	21	24	23	23	32	30	32
Domestic commerce <sup>1</sup> .....	497	447	651	745	761	829	888	927
Coastwise, between ports.....	157	91	183	196	209	202	214	217
Great Lakes, between ports.....	141	158	170	185	155	154	151	161
Local traffic of seaports, Great Lakes ports, and inland waterways ports.....	98	98	107	113	104	103	91	88
Traffic between ports and river ports <sup>2</sup> .....	70	87	191	250	291	370	430	461
Traffic between ports of outlying areas of the United States.....	(3)	(3)	1	2	1	1	2	1

<sup>1</sup> For 1940 and 1945, approximate domestic traffic.

<sup>2</sup> Represents traffic among Great Lakes waterways.

<sup>3</sup> Included in other types of traffic.

Source: Dept. of the Army, Corps of Engineers; through 1950, *Annual Report of Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

# No. 900. SHIPMENTS OF EXPORTS AND IMPORTS, BY METHOD OF TRANSPORT: 1955 TO 1970

[Value in millions of dollars, except percent; shipping weight in millions of pounds. Export data include both domestic and foreign; import data for general imports only]

ITEM	1955	1960	1965	1967	1968	1969	1970
EXPORTS <sup>1</sup>							
Value, all methods of transportation.....	15,547	20,575	27,478	31,526	34,636	38,006	43,226
Vessel.....	9,227	13,142	16,926	18,772	19,689	20,072	24,615
Percent of total.....	59.4	63.9	61.6	59.5	56.8	52.8	56.9
Air.....	(NA)	(NA)	2,289	3,233	3,830	5,128	5,984
Shipping weight:							
Vessel.....	225,169	248,456	343,461	375,198	389,339	398,597	480,330
Air.....	(NA)	(NA)	457	540	655	860	891
IMPORTS <sup>2</sup>							
Value, all methods of transportation.....	11,384	14,654	21,366	26,812	33,226	36,043	39,063
Vessel.....	8,073	11,106	14,943	17,492	21,258	21,627	24,783
Percent of total.....	70.9	75.8	69.9	65.2	64.0	60.0	62.0
Air.....	(NA)	(NA)	1,316	1,947	2,558	3,190	3,415
Shipping weight:							
Vessel.....	283,069	398,085	511,509	512,686	567,345	577,711	596,958
Air.....	(NA)	(NA)	192	305	431	614	620

NA Not available.

<sup>1</sup> Prior to 1960, export vessel and air data include estimated shipments under \$100; thereafter \$251 and under, but exclude vessels under their own power or afloat, "Special Category", and mail (parcel post) shipments.

<sup>2</sup> Import vessel and air data include estimated shipments under \$251, but exclude vessels under their own power or afloat.

Source: Dept. of Commerce, Bureau of the Census; monthly report, FT 900, *Highlights of U.S. Export and Import Trade*, and unpublished data.

# No. 901. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY COASTAL DISTRICT: 1945 TO 1969

[In thousands of short tons. See headnote, table 902]

DISTRICT	1945	1950	1955	1960	1965	1966	1967	1968	1969
IMPORTS									
Atlantic ports.....	30,748	76,062	105,990	135,313	163,871	172,595	164,254	180,813	188,590
Gulf ports.....	5,675	10,930	17,845	27,304	36,773	39,408	35,615	41,544	43,482
Pacific ports.....	3,003	4,095	9,038	23,281	29,995	27,426	26,223	28,292	31,957
Great Lakes ports.....	(NA)	5,616	8,751	12,932	24,957	26,646	27,713	32,100	24,643
EXPORTS									
Atlantic ports.....	39,609	15,228	54,906	44,902	54,943	56,756	57,365	58,265	62,987
Gulf ports.....	14,737	16,818	22,800	36,730	58,717	67,056	66,028	66,742	63,217
Pacific ports.....	7,258	7,270	13,394	19,351	26,445	30,395	30,486	39,146	41,018
Great Lakes ports.....	(NA)	23,370	21,995	22,905	31,705	31,772	27,549	30,330	32,064

NA Not available.

Source: Dept. of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States*, annual report, FT 986, *U.S. Waterborne Foreign Trade*, and unpublished data.

# **No. 902. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY FLAG OF CARRIER VESSEL: 1950 TO 1969**

[In thousands of short tons. Beginning July 1950, excludes commodities classified for security reasons as "Special Category." Beginning 1955, imports exclude shipments under 2,000 pounds. For further coverage details, see report FT 985, *U.S. Waterborne Foreign Trade*, of the Census. See also *Historical Statistics, Colonial Times to 1957*, series Q 210-219.]

YEAR	Total trade	Percent by U.S. flag	IMPORTS BY FLAG OF CARRIER VESSEL				EXPORTS BY FLAG OF CARRIER VESSEL			
			Total	U.S.	Foreign	Percent U.S.	Total	U.S.	Foreign	Percent U.S.
<b>TOTAL</b>										
1950.....	159,389	39.3	96,703	42,268	54,435	43.7	62,685	20,379	42,306	32.5
1955.....	253,919	23.5	141,123	37,409	103,715	26.5	112,796	22,144	90,652	19.6
1960.....	322,717	12.3	198,830	19,627	179,203	9.9	123,887	20,133	103,754	16.3
1965.....	427,407	8.1	255,596	15,673	240,023	6.1	171,811	19,048	152,762	11.1
1966.....	452,053	7.3	298,075	15,598	282,477	5.9	185,978	17,358	168,620	9.3
1967.....	444,233	6.5	256,806	13,526	243,280	5.3	187,427	15,395	172,032	8.2
1968.....	477,234	6.1	282,761	16,321	266,439	5.8	194,453	16,599	177,854	8.3
1969.....	487,906	4.9	288,620	10,990	277,630	3.8	199,286	13,060	186,226	6.6
<b>DRY CARGO</b>										
1950.....	100,189	31.2	46,611	14,823	31,788	31.8	53,578	16,429	37,149	30.7
1955.....	169,231	23.2	83,437	19,855	63,582	29.0	100,794	19,762	81,032	19.6
1960.....	202,497	15.2	94,931	13,813	81,118	14.6	107,566	19,980	87,586	15.8
1965.....	273,928	9.3	123,318	10,369	112,949	8.4	150,610	15,223	135,387	10.0
1966.....	297,468	8.1	130,342	10,487	119,855	8.0	167,144	13,619	153,525	8.0
1967.....	294,069	8.1	127,331	11,103	116,228	8.7	166,738	12,658	154,080	7.6
1968.....	315,694	7.1	137,700	10,423	127,276	7.6	177,094	13,267	163,827	7.4
1969.....	314,054	5.8	131,750	6,768	124,982	5.1	182,304	11,328	170,976	6.2
<b>TANKER CARGO</b>										
1950.....	59,199	53.0	50,092	27,445	22,647	54.8	9,107	3,950	5,157	43.4
1955.....	84,688	23.5	72,686	17,554	55,133	24.2	12,002	2,882	9,120	19.8
1960.....	120,219	7.5	103,898	5,814	98,084	5.6	16,321	3,153	13,168	19.3
1965.....	153,478	5.9	132,278	5,204	127,074	3.9	21,200	3,825	17,375	18.0
1966.....	154,667	5.8	135,733	5,112	130,621	3.8	18,834	3,839	14,995	20.4
1967.....	150,165	3.4	124,476	2,424	122,052	1.9	20,680	2,707	17,973	13.1
1968.....	161,641	5.0	145,052	5,897	139,154	4.1	16,489	2,833	13,656	14.1
1969.....	173,853	3.4	156,870	4,217	152,653	2.7	16,983	1,733	15,250	10.2

Source: Dept. of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States*, annual report, FT 985, *U.S. Waterborne Foreign Trade*, and unpublished data.

# **No. 903. WATERBORNE IMPORTS AND EXPORTS—VALUE OF TRADE, BY COASTAL DISTRICT: 1965, 1968, AND 1969**

[In millions of dollars. Includes trade of Puerto Rico with foreign countries]

DISTRICT AND TYPE OF VESSEL	TOTAL TRADE			IMPORTS			EXPORTS		
	1965	1968	1969	1965	1968	1969	1965	1968	1969
<b>Total.....</b>	<b>31,868</b>	<b>40,498</b>	<b>41,485</b>	<b>14,941</b>	<b>21,139</b>	<b>21,570</b>	<b>16,927</b>	<b>19,359</b>	<b>19,915</b>
<b>Atlantic.....</b>	<b>18,132</b>	<b>22,929</b>	<b>22,446</b>	<b>9,743</b>	<b>13,346</b>	<b>12,855</b>	<b>8,389</b>	<b>9,583</b>	<b>9,591</b>
Dry cargo.....	16,570	21,095	20,528	8,266	11,637	11,085	8,304	9,458	9,443
Tanker.....	1,562	1,834	1,918	1,477	1,709	1,770	85	125	148
<b>Gulf.....</b>	<b>6,739</b>	<b>8,354</b>	<b>7,845</b>	<b>1,761</b>	<b>2,634</b>	<b>2,536</b>	<b>4,978</b>	<b>5,720</b>	<b>5,309</b>
Dry cargo.....	5,584	7,532	6,951	1,657	2,479	2,368	3,927	5,053	4,583
Tanker.....	1,155	822	894	105	155	168	1,051	667	726
<b>Pacific.....</b>	<b>4,789</b>	<b>6,658</b>	<b>8,605</b>	<b>2,410</b>	<b>3,748</b>	<b>4,895</b>	<b>2,379</b>	<b>2,910</b>	<b>3,710</b>
Dry cargo.....	4,353	6,319	8,247	2,097	3,516	4,626	2,266	2,803	3,621
Tanker.....	436	339	358	313	232	269	123	107	89
<b>Great Lakes.....</b>	<b>2,209</b>	<b>2,557</b>	<b>2,591</b>	<b>1,028</b>	<b>1,411</b>	<b>1,285</b>	<b>1,181</b>	<b>1,146</b>	<b>1,306</b>
Dry cargo.....	2,141	2,523	2,543	1,013	1,401	1,271	1,128	1,122	1,272
Tanker.....	68	34	48	15	10	14	53	24	34

Source: Dept. of Commerce, Bureau of the Census; annual report, FT 985, *U.S. Waterborne Foreign Trade*.

## No. 904. FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1945 TO 1969

[In millions of ton-miles. Excludes Alaska and Hawaii, except as noted]

SYSTEM	1945	1950	1955	1960	1965	1968	1969
<b>Total</b> .....	<b>142,737</b>	<b>163,344</b>	<b>216,508</b>	<b>220,253</b>	<b>262,421</b>	<b>291,409</b>	<b>302,901</b>
Atlantic coast rivers.....	1,036	6,497	27,042	28,583	27,781	25,038	26,603
Gulf coast rivers.....	345	1,220	13,860	16,932	21,808	25,767	27,808
Pacific coast rivers.....	1,555	1,086	4,736	6,001	6,630	7,303	8,061
Mississippi River System <sup>1</sup> .....	19,595	33,598	52,019	69,257	96,593	120,339	125,195
Great Lakes System <sup>2</sup> .....	120,205	120,334	118,850	99,480	109,609	112,073	115,235

<sup>1</sup> Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers.<sup>2</sup> Includes other waterways, canals and connecting channels, and, beginning 1960, Alaskan waterways.Source: Dept. of the Army, Corps of Engineers; through 1950, *Annual Report of the Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

## No. 905. FREIGHT CARRIED ON GREAT LAKES SYSTEM: 1969

[In millions of ton-miles]

AREA	Total	DOMESTIC				FOREIGN	
		Lakewise	Coast-wise	Internal	Local	Canadian	Overseas
<b>Total</b> .....	<b>115,235</b>	<b>82,569</b>	<b>71</b>	<b>562</b>	<b>98</b>	<b>21,259</b>	<b>10,675</b>
Lake Superior.....	28,714	26,101	—	—	—	2,031	581
St. Marys River.....	5,864	4,884	—	—	—	434	95
Lake Michigan, including Port of Chicago <sup>1</sup> .....	20,367	15,565	3	453	78	2,595	1,673
Lake Huron.....	25,004	19,650	5	—	4	3,081	1,665
St. Clair River, including channels in Lake St. Clair.....	6,146	4,868	1	—	—	876	401
Detroit River.....	3,844	2,600	2	1	—	474	266
Lake Erie, including upper Niagara River.....	17,104	8,878	28	30	15	5,650	2,494
Welland Canal.....	1,131	10	3	10	—	792	316
Lake Ontario, including lower Niagara River.....	4,996	52	20	56	—	2,996	1,872
St. Lawrence River, between International Boundary Line and Lake Ontario.....	3,064	10	9	3	—	1,731	1,312

— Represents zero.

<sup>1</sup> Comprises Chicago Harbor, North Branch, South Branch, Sanitary Ship Canal, Calumet-Sag Channel, Lake Calumet, and Calumet Harbor and River.Source: Dept. of the Army, Corps of Engineers; *Waterborne Commerce of the United States*.

## No. 906. FREIGHT CARRIED ON MISSISSIPPI RIVER SYSTEM: 1950 TO 1969

[Net traffic. Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers]

YEAR	TRAFFIC IN SHORT TONS (1,000)					TRAFFIC IN TON-MILES (millions)				
	Total	Inland	Coast-wise	Foreign		Total	Inland	Coast-wise	Foreign	
				Imports	Exports				Imports	Exports
1950.....	138,145	114,697	13,877	4,395	5,176	33,598	30,282	2,074	599	643
1955.....	194,363	163,760	18,060	6,296	8,248	52,019	47,418	2,473	1,046	1,082
1960.....	233,959	188,098	21,994	11,284	12,584	69,257	62,367	3,184	1,821	1,884
1965.....	301,780	237,631	28,395	13,031	22,724	96,593	87,407	3,592	2,333	3,261
1966.....	321,756	247,200	35,161	14,479	24,917	106,376	95,870	4,284	2,561	3,661
1967.....	340,117	258,367	41,331	13,847	26,572	114,679	103,475	4,801	2,447	3,796
1968.....	351,140	270,657	40,320	14,035	25,634	120,339	109,165	5,007	2,494	3,673
1969.....	368,631	286,804	39,319	15,939	26,570	125,195	114,032	4,565	2,695	3,903

Source: Dept. of the Army, Corps of Engineers; for 1950, *Annual Report of the Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

## No. 907. COMMERCE OF SELECTED UNITED STATES PORTS: 1969

[In thousands of short tons (cargo). Excludes Great Lakes. In addition to commerce shown here, many ports have (a) commerce with ports on inland rivers and canals; (b) purely local port traffic]

PORT	Im-ports	Ex-ports	COASTWISE		PORT	Im-ports	Ex-ports	COASTWISE	
			Re-ceipts	Ship-ments				Re-ceipts	Ship-ments
<b>Total</b> .....	295,648	168,944	216,708	216,708	Port Everglades Harbor, Fla. ....	2,412	200	5,983	350
<b>ATLANTIC COAST PORTS</b>					Miami Harbor, Fla. ....	1,118	388	242	90
Portland Harbor, Maine. ....	22,240	(Z)	3,944	1,043	San Juan Harbor, P.R. ....	4,051	204	2,718	896
Portsmouth Harbor, N.H. ....	954	-	836	6	<b>GULF COAST PORTS</b>				
Salem Harbor, Mass. ....	660	-	545	15	Charlotte Harbor, Fla. ....	338	789	19	1,415
Boston, Mass. ....	9,187	682	11,526	1,985	Tampa Harbor, Fla. ....	2,120	9,805	11,248	3,382
Fall River Harbor, Mass. ....	820	-	2,755	143	Mobile Harbor, Ala. ....	8,206	2,504	69	2,172
Providence River and Harbor, R.I. ....	2,220	172	6,191	723	New Orleans, La. ....	6,940	20,216	1,687	25,661
New Haven Harbor, Conn. ....	2,414	295	0,271	1,040	Baton Rouge, La. ....	7,039	5,454	488	9,332
Bridgeport Harbor, Conn. ....	1,707	95	1,574	330	Lake Charles, La. ....	142	1,484	10	2,823
Norwalk Harbor, Conn. ....	-	-	1,854	(Z)	Galveston, Tex. ....	509	1,724	197	39
Port of New York, N.Y., and N.J. ....	50,261	6,417	28,881	21,008	Texas City, Tex. ....	41	705	243	4,363
Hempstead Harbor, N.Y. ....	-	-	1,992	2,620	Houston, Tex. ....	4,548	8,084	1,525	17,086
Port Jefferson Harbor, N.Y. ....	387	-	2,297	165	Corpus Christi, Tex. ....	3,792	2,326	192	11,570
Port of Albany, N.Y. ....	1,189	181	2,146	1	Harbor Island, Tex. ....	-	-	-	4,403
Delaware River and tributaries. ....	54,628	3,126	28,390	7,776	Freeport Harbor, Tex. ....	40	1,391	131	1,104
Baltimore Harbor and Channels, Md. ....	19,363	5,940	3,298	1,226	Brazos Island Harbor, Tex. ....	1,080	456	(Z)	1,580
Norfolk Harbor, Va. ....	4,951	30,149	1,739	1,706	Beaumont, Tex. ....	44	2,163	466	12,638
Port of Newport News, Va. ....	841	9,096	(Z)	936	Port Arthur, Tex. ....	404	1,541	4,748	10,584
Port of Wilmington, N.C. ....	1,455	167	1,819	179	<b>PACIFIC COAST PORTS</b>				
Charleston Harbor, S.C. ....	1,980	651	2,708	129	Long Beach Harbor, Calif. ....	4,797	6,181	4,414	3,479
Savannah Harbor, Ga. ....	2,229	1,037	1,871	142	Los Angeles Harbor, Calif. ....	5,786	4,422	5,662	5,996
Jacksonville Harbor, Fla. ....	4,495	1,378	3,591	477	San Francisco Bay Area, Calif. ....	6,961	6,270	17,268	9,335
					Coos Bay, Oreg. ....	(Z)	2,900	325	326
					Portland, Oreg. ....	1,292	3,588	4,409	305
					Longview, Wash. ....	313	3,276	588	110
					Tacoma Harbor, Wash. ....	1,966	2,112	396	116
					Seattle Harbor, Wash. ....	2,483	1,487	2,762	1,142
					Honolulu Harbor, Hawaii. ....	1,562	119	3,242	2,140

- Represents zero. Z Less than 500 tons. <sup>1</sup> Includes data for ports not shown separately.

Source: Dept. of the Army, Corps of Engineers; *Waterborne Commerce of the United States*.

## No. 908. COMMERCE OF SELECTED GREAT LAKES PORTS: 1955 TO 1969

[In thousands of short tons (cargo). Comprises foreign, lakewise, and coastwise shipping]

PORT	RECEIPTS				SHIPMENTS			
	1955	1960	1965	1969	1955	1960	1965	1969
<b>Total</b> .....	193,591	168,043	183,723	185,576	207,588	178,287	190,506	192,991
Ashtabula Harbor, Ohio. ....	9,455	7,773	6,854	7,320	3,586	2,450	4,246	3,465
Buffalo, N.Y., Port of. ....	19,318	15,595	16,342	14,441	2,436	1,226	1,012	971
Chicago, Ill., Port of. ....	16,872	12,303	16,411	15,735	6,349	8,411	11,927	11,099
Cleveland Harbor, Ohio. ....	19,744	17,113	20,981	23,460	3,558	511	832	1,015
Conneaut Harbor, Ohio. ....	14,139	6,570	5,821	7,513	904	588	3,486	6,398
Detroit, Mich., Port of. ....	24,295	25,334	30,980	28,320	1,626	1,892	1,020	1,570
Duluth-Superior, Minn. and Wis. ....	7,142	5,155	5,093	4,352	61,156	37,512	41,083	39,100
Indiana Harbor, Ind. ....	13,695	12,116	13,092	12,437	6,386	7,059	4,372	5,141
Lorain Harbor, Ohio. ....	5,563	5,036	4,831	6,488	2,558	1,059	1,860	3,322
Milwaukee Harbor, Wis. ....	7,157	6,861	4,354	4,962	1,532	1,647	2,032	1,861
Sandusky Harbor, Ohio. ....	1	38	4	4	7,961	5,616	2,056	6,782
Toledo Harbor, Ohio. ....	6,504	5,870	7,395	6,032	28,710	27,815	37,279	23,725
All other. ....	49,706	48,279	52,625	54,589	84,236	81,901	79,301	88,652

Source: Dept. of the Army, Corps of Engineers; *Waterborne Commerce of the United States*.



## No. 909. TRAFFIC THROUGH THE PANAMA CANAL: 1940 TO 1970

[For years ending June 30. See also *Historical Statistics, Colonial Times to 1957*, series Q 235-237]

YEAR	ALL TRAFFIC		COMMERCIAL OCEAN TRAFFIC <sup>1</sup>								
	Trans-its	Cargo (1,000 long tons)	Trans-its	Net tons <sup>2</sup> (1,000)	Tolls (\$1,000)	Cargo (1,000 long tons)	1970				
							Nationality of Vessel	Trans-its	Net tons <sup>2</sup> (1,000)	Tolls (\$1,000)	Cargo (1,000 long tons)
1940----	(NA)	(NA)	5,370	24,144	21,145	27,299	Germany <sup>3</sup> -----	1,108	6,363	5,600	4,992
1950----	5,891	30,302	5,448	28,013	24,430	28,872	Great Britain-----	1,003	13,380	11,727	13,482
1955----	8,293	41,485	7,997	38,568	33,849	40,646	Greece-----	568	5,247	4,600	7,179
1960----	12,147	60,402	10,795	58,302	50,939	59,258	Japan-----	1,178	10,072	8,834	11,073
1965----	12,918	78,923	11,834	74,735	65,443	76,573	Liberia-----	1,601	18,477	15,971	25,811
1966----	13,304	85,323	11,925	78,913	69,095	81,704	Netherlands-----	493	3,175	2,733	2,820
1967----	14,070	92,998	12,412	88,266	76,679	86,193	Norway-----	1,323	13,190	11,741	16,536
1968----	15,511	105,638	13,199	96,488	83,907	96,550	Panama-----	799	4,194	3,536	4,309
							Sweden-----	462	3,742	3,341	3,478
1969----	15,327	108,793	13,146	100,558	87,423	101,373	United States-----	1,520	11,847	10,289	7,947
1970----	15,523	118,909	13,658	108,142	94,654	114,257	All other-----	3,003	18,455	16,282	16,570

NA. Not available.

<sup>1</sup> Comprises oceangoing toll-paying vessels and foreign naval vessels of 300 net tons and over (Panama Canal measurement) for vessels rated on net tonnage, or 500 tons displacement and over for vessels rated on displacement tonnage. <sup>2</sup> Panama Canal net. <sup>3</sup> Federal Republic only. <sup>4</sup> Includes Canadian.Source: Panama Canal Company, Balboa Heights, Canal Zone; *Annual Report*.

## No. 910. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY FLAG OF CARRIER VESSEL: 1941 TO 1969

[In thousands of net tons, except as indicated. Includes Puerto Rico and Virgin Islands. Excludes domestic trade. See also *Historical Statistics, Colonial Times to 1957*, series Q 192-203]

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS <sup>1</sup>					
	Number of vessels	All vessels			Percent U.S.	All vessels			With cargo		
		Total ton- nage	U.S.	Foreign		Total ton- nage	U.S.	Foreign	Total ton- nage	U.S.	Foreign
ENTERED											
1941-1945-	38,997	67,904	34,658	33,336	51.0	52,620	30,059	22,560	28,995	16,877	12,118
1946-1950-	48,813	87,462	46,205	41,257	52.8	75,094	42,168	32,926	50,288	26,318	23,970
1951-1955-	48,082	114,990	39,450	75,531	34.3	100,657	35,845	65,813	78,407	26,750	51,640
1956-1960-	51,874	155,368	31,118	124,251	20.0	139,375	26,938	112,436	110,023	21,884	88,139
1961-1965-	49,670	187,982	33,443	154,539	17.9	166,207	29,047	136,260	127,832	18,994	108,839
1955-----	48,415	128,405	34,321	94,084	26.7	113,807	30,407	83,400	89,652	25,331	64,220
1960-----	51,375	162,765	30,189	132,575	18.5	145,828	26,708	119,119	118,539	19,955	98,584
1965-----	51,357	209,000	34,041	174,960	16.3	183,724	30,919	152,806	139,029	18,283	120,747
1966-----	52,182	217,894	31,487	186,407	14.5	191,684	28,621	163,063	147,769	18,641	129,128
1967-----	54,040	220,681	30,830	189,848	14.0	195,871	26,990	168,878	147,058	17,329	129,729
1968-----	55,138	229,850	30,389	199,465	13.2	203,664	27,456	176,210	155,895	18,242	137,653
1969-----	52,642	238,085	26,662	211,423	11.2	213,008	25,264	187,741	163,664	17,060	146,604
CLEARED											
1941-1945-	38,195	71,792	37,283	34,509	51.9	56,304	32,585	23,718	45,147	26,377	18,770
1946-1950-	46,135	87,190	44,942	42,244	51.5	74,889	40,933	33,953	54,584	29,510	25,073
1951-1955-	45,324	115,447	39,533	75,914	34.2	101,213	35,531	65,682	68,396	25,407	42,989
1956-1960-	49,079	156,376	31,157	125,219	19.9	140,498	27,018	113,478	85,273	19,791	65,481
1961-1965-	48,098	189,274	33,913	155,360	17.9	167,581	30,459	137,121	95,963	20,388	75,581
1955-----	46,642	129,368	34,407	94,961	26.6	114,806	30,615	84,192	73,663	20,763	52,900
1960-----	49,809	160,715	31,280	135,434	18.8	149,778	27,649	122,127	84,470	18,663	65,817
1965-----	49,779	208,736	34,016	174,721	16.3	188,540	31,048	152,492	103,473	20,979	82,494
1966-----	51,150	219,437	32,738	186,699	14.9	193,433	29,925	163,507	114,949	24,815	90,134
1967-----	52,644	220,231	30,827	189,404	14.0	195,845	27,089	168,756	119,797	24,336	95,461
1968-----	54,406	230,324	31,198	199,126	13.5	204,086	28,244	175,839	121,535	24,089	97,446
1969-----	51,670	237,986	27,235	210,758	11.4	212,746	25,738	187,013	122,264	22,190	100,055

<sup>1</sup> Comprises all ports except Great Lakes ports.Source: Dept. of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States*, and annual report, FT 975, *Vessel Entrances and Clearances*.

# Vessels Entered and Cleared—Federal Expenditures—Employees 565

## NO. 911. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY CUSTOMS DISTRICTS: 1955 TO 1969

[In thousands of net tons. Excludes domestic trade. Beginning 1966, Puerto Rico included in South Atlantic Coast; Hawaii included in South Pacific Coast; and Alaska included in North Pacific Coast]

CUSTOMS DISTRICT	1955	1960	1964	1965	1966	1967	1968	1969
<b>ENTERED</b>								
North Atlantic Coast.....	71,159	75,829	85,178	88,586	89,918	89,171	91,157	95,765
With cargo.....	57,844	60,580	72,875	76,541	79,052	79,665	79,866	81,665
South Atlantic Coast.....	6,000	8,827	11,224	10,862	20,071	21,046	22,615	24,993
With cargo.....	5,292	7,808	9,038	8,709	16,633	17,183	17,917	19,720
Gulf Coast.....	17,434	27,022	36,674	37,564	36,527	34,568	34,499	34,303
With cargo.....	11,795	15,016	17,340	18,485	20,267	19,499	20,914	21,802
South Pacific Coast.....	9,582	17,148	19,206	21,546	29,858	27,581	28,662	30,012
With cargo.....	7,547	15,007	16,500	17,747	21,475	21,558	22,834	23,836
North Pacific Coast.....	6,385	10,133	11,692	12,068	16,458	19,000	22,008	21,685
With cargo.....	4,305	7,551	7,742	7,895	9,594	10,229	11,804	12,430
Great Lakes.....	14,597	16,937	24,705	25,276	26,209	24,810	26,186	25,077
With cargo.....	4,631	7,771	13,948	14,484	15,825	15,555	16,849	14,296
Alaska, Hawaii, Puerto Rico, and V.I.....	3,247	6,869	10,650	12,198	1,864	3,706	4,853	6,260
With cargo.....	2,678	5,968	8,763	9,652	748	1,024	3,061	4,111
<b>CLEARED</b>								
North Atlantic Coast.....	71,240	80,842	91,464	89,676	89,865	84,884	87,439	93,560
With cargo.....	38,903	35,510	39,781	37,778	38,387	36,848	35,833	38,614
South Atlantic Coast.....	5,846	8,612	10,908	11,227	18,727	20,176	21,383	23,518
With cargo.....	3,635	5,121	5,766	5,322	9,861	10,610	10,613	10,636
Gulf Coast.....	17,289	25,218	33,959	36,289	40,943	40,696	41,001	39,768
With cargo.....	13,320	18,825	28,192	28,681	33,828	34,189	34,411	32,979
South Pacific Coast.....	11,172	18,007	19,744	21,758	25,836	27,183	27,870	29,683
With cargo.....	10,598	14,602	14,495	16,068	20,049	21,668	21,886	22,090
North Pacific Coast.....	5,060	9,444	10,873	12,840	16,280	19,316	22,214	21,792
With cargo.....	4,130	6,923	8,068	9,769	12,354	15,865	18,144	17,210
Great Lakes.....	14,561	16,937	24,626	25,196	26,004	24,380	26,244	25,240
With cargo.....	11,831	13,106	17,454	18,641	18,702	16,277	17,610	18,802
Alaska, Hawaii, Puerto Rico, and V.I.....	4,200	7,654	10,703	11,749	1,802	3,696	4,199	4,425
With cargo.....	3,077	3,491	4,921	5,555	470	617	648	719

Source: Dept. of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States*, and annual report, FT 975, *Vessel Entrances and Clearances*.

## NO. 912. FEDERAL EXPENDITURES FOR CIVIL FUNCTIONS OF THE CORPS OF ENGINEERS, UNITED STATES ARMY: 1940 TO 1970

[In thousands of dollars. For years ending June 30. Includes Puerto Rico and outlying areas. Represents funds actually expended under the direction of the Chief of Engineers for maintenance and improvement of rivers and harbors, flood control, and other miscellaneous works]

YEAR	Amount	YEAR	Amount	YEAR	Amount	YEAR	Amount
1940.....	213,889	1954.....	539,687	1960.....	868,573	1966.....	1,291,223
1945.....	134,216	1955.....	511,587	1961.....	938,032	1967.....	1,265,933
1950.....	634,534	1956.....	556,724	1962.....	964,964	1968.....	1,275,892
1951.....	620,581	1957.....	668,433	1963.....	1,092,570		
1952.....	597,102	1958.....	718,532	1964.....	1,096,564	1969.....	1,193,970
1953.....	635,512	1959.....	806,427	1965.....	1,210,765	1970.....	1,213,366

Source: Dept. of the Army, Corps of Engineers; annual report, *Statement of Costs*.

## NO. 913. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1950 TO 1970

[In thousands. Prior to 1960, excludes Alaska and Hawaii. Annual average employment in establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters of 5 gross tons and over, whether propelled by sail or motor power or towed by other craft]

YEAR	Total	Private yards <sup>1</sup>	Navy yards	YEAR	Total	Private yards <sup>1</sup>	Navy yards
1950.....	146	72	<sup>2</sup> 74	1965.....	213	129	84
1955.....	208	101	<sup>2</sup> 107	1966.....	229	144	85
1960.....	208	112	96	1967.....	235	140	95
1961.....	214	116	98	1968.....	236	141	95
1962.....	212	115	98				
1963.....	209	116	94	1969.....	233	142	91
1964.....	204	117	87	1970.....	216	133	83

<sup>1</sup> Includes all full- and part-time employees who worked during or received pay for any part of the pay period which includes the 12th of the month. Data have been adjusted to March 1969 benchmark levels indicated by data from Government social insurance programs. <sup>2</sup> Includes Curtis Bay Coast Guard yard (Md.).

Source: Dept. of Labor, Bureau of Labor Statistics. Current data for private yards published monthly in *Employment and Earnings*.

# **No. 914. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS, 1950 TO 1970, AND BASIC WAGE SCALE FOR ABLE-BODIED SEAMEN, 1956 TO 1971**

(Employment data as of June 30)

YEAR	Employment <sup>1</sup>	YEAR	Employment <sup>1</sup>	EAST COAST 4— YEAR AND MONTH	Monthly wage rate <sup>5</sup>	WEST COAST 4— YEAR AND MONTH	Monthly wage rate <sup>5</sup>
1950.....	56,629	1962.....	47,346	1956—June.....	\$333.27	1956—October.....	\$453.00
1955.....	57,468	1963.....	47,996	1957—June.....	363.27	1957—October.....	478.00
1966.....	57,192	1964.....	47,979	1960—January.....	369.17	1960—October.....	511.80
1967.....	61,059	1965.....	<sup>3</sup> 39,125	1961—June.....	383.94	1961—October.....	521.80
1968.....	51,515	1966.....	51,889	1962—June.....	392.58	1966—June.....	568.00
		1967.....	54,584	1967—June.....	422.58	1967—June.....	577.50
1969.....	50,223	1968.....	54,160	1968—June.....	443.71	1968—June.....	599.80
1960.....	49,153	1969.....	47,404	1970—January.....	470.33	1970—January.....	652.00
1961.....	<sup>2</sup> 30,930	1970.....	37,580	1971—January.....	498.56	1971—January.....	704.00

<sup>1</sup> Estimates of personnel employed on U.S. merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, the U.S. Army and Navy, and special types such as cable ships, tugs, etc. <sup>2</sup> Employment affected by maritime strike, Atlantic, Gulf, and Pacific Coast ports.

<sup>3</sup> Decrease due to seafaring strike. <sup>4</sup> Seamen on both coasts receive extra pay for Saturdays and Sundays at sea. Beginning November 1965, West Coast incorporated this extra pay into base wages but East Coast did not.

<sup>5</sup> Represents basic wage, over and above subsistence (board and room), paid to seamen having qualifying experience and employed on U.S. flag merchant vessels. Excludes overtime and fringe pay benefits.

Source: Dept. of Commerce, Maritime Administration; *Seafaring Wage Rates*, and unpublished data. Beginning 1966, monthly employment data in *Maritime Manpower Report*.

## **No. 915. U.S. MERCHANT MARINE—VESSELS AND TONNAGE: 1950 TO 1965**

[As of January 1. Includes Puerto Rico, Guam, and Virgin Islands. Covers documented vessels of 5 net tons or more. See also *Historical Statistics, Colonial Times to 1967*, series Q 153-154]

AREA OF LOCATION	NUMBER OF VESSELS					GROSS TONNAGE OF VESSELS (1,000)				
	1950	1955	1960	1964	1965	1950	1955	1960	1964	1965
<b>Total.....</b>	36,083	39,242	43,088	44,669	45,579	31,215	29,958	28,581	26,160	26,516
Atlantic and Gulf.....	21,623	23,355	24,963	25,651	26,087	20,420	20,402	18,926	17,077	17,074
Pacific.....	10,066	10,687	10,828	10,934	10,957	8,446	7,004	5,782	4,405	4,356
Northern lakes.....	2,029	2,005	1,950	1,973	1,951	1,628	1,690	1,728	1,858	1,878
Western rivers.....	2,368	3,195	5,347	6,111	6,584	721	962	2,145	2,820	3,208

Source: Dept. of Transportation, U.S. Coast Guard; annual report, *Merchant Marine Statistics*.

## **No. 916. UNITED STATES FLAG MERCHANT VESSELS, STEAM AND MOTOR: 1950 TO 1970**

[Dead-weight tonnage in thousands. As of June 30. Covers oceangoing vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types and vessels employed on Great Lakes]

VESSEL STATUS AND TONNAGE	1950			1960			1970		
	Total <sup>1</sup>	Cargo	Tanker	Total <sup>1</sup>	Cargo	Tanker	Total <sup>1</sup>	Cargo	Tanker
<b>All vessels.....</b>	3,408	2,846	479	2,960	2,226	428	1,780	1,302	301
<b>Tons.....</b>	36,526	28,927	6,959	32,821	23,015	7,762	23,280	14,298	7,835
<b>Active vessels.....</b>	1,145	682	412	930	627	267	631	412	207
<b>Tons.....</b>	13,828	7,075	6,336	12,467	6,854	5,295	11,143	5,442	5,594
Foreign trade.....	711	505	161	558	479	45	386	344	32
<b>Tons.....</b>	8,363	5,367	2,597	6,541	5,265	972	5,775	4,005	1,076
Domestic trade.....	434	177	251	372	148	222	246	98	175
<b>Tons.....</b>	5,474	1,708	3,737	5,926	1,680	4,323	5,368	837	4,518
Coastwise.....	279	66	213	237	35	202	142	10	132
<b>Tons.....</b>	3,716	559	3,157	4,284	375	3,910	3,699	116	3,453
Intercoastal.....	87	58	29	50	39	11	25	17	8
<b>Tons.....</b>	1,131	649	482	717	442	275	417	262	165
Noncontiguous.....	68	53	9	85	74	9	78	41	35
<b>Tons.....</b>	626	500	98	925	773	138	1,352	469	870
Temporarily inactive.....	86	42	40	90	35	60	63	33	22
<b>Tons.....</b>	846	384	434	1,400	376	993	1,163	399	691
Reserve fleet.....	2,177	2,122	27	1,884	1,636	83	898	712	30
<b>Tons.....</b>	21,853	21,468	190	18,279	15,630	1,062	8,045	6,726	361
Special service.....	-	-	-	47	28	18	188	145	42
<b>Tons.....</b>	-	-	-	675	255	414	2,930	1,781	1,180

- Represents zero. <sup>1</sup> Includes ships originally constructed as cargo ships but converted to transports, hospital ships, etc., not shown separately.

Source: Dept. of Commerce, Maritime Administration; *Employment Report of United States Flag Merchant Fleet Oceangoing Vessels 1,000 Gross Tons and Over*, June 1970.

## No. 917. MERCHANT VESSELS COMPLETED BY U.S. SHIPYARDS: 1940 TO 1970

[Tons in thousands. Represents self-propelled steel vessels of 2,000 gross tons and over. Excludes Alaska and Hawaii]

YEAR	ALL MERCHANT VESSELS		PASSENGER-CARGO/TRANSPORT			CARGO			TANKER		
	Number	Gross tons	Number	Gross tons	Dead-weight tons	Number	Gross tons	Dead-weight tons	Number	Gross tons	Dead-weight tons
1940.....	53	445	6	69	61	31	227	335	16	149	238
1944.....	1,463	11,403	48	461	330	1,175	8,455	11,858	240	2,486	3,955
1945.....	1,041	7,615	46	509	311	807	5,336	7,206	188	1,770	2,787
1950.....	26	405	-	-	-	3	27	44	23	378	609
1955.....	9	119	-	-	-	7	84	95	2	35	55
1960.....	26	410	-	-	-	15	134	163	11	276	456
1965.....	13	173	-	-	-	11	121	154	2	52	92
1966.....	13	146	-	-	-	12	125	161	1	21	36
1967.....	12	143	-	-	-	12	143	160	-	-	-
1968.....	21	319	-	-	-	18	256	291	3	63	113
1969.....	22	418	-	-	-	14	217	247	8	201	381
1970.....	13	342	-	-	-	6	120	134	7	222	427

- Represents zero.

Source: From 1940-1960, American Bureau of Shipping, New York, N.Y., annually in *The Bulletin*; thereafter, Dept. of Commerce, Maritime Administration; annual report, *New Ship Construction*.

## No. 918. SHIPBUILDING IN PRIVATE SHIPYARDS—SUMMARY: 1950 TO 1970

[Tons in thousands: Gross tons for commercial vessels, light displacement tons for naval vessels. Covers steel vessels of 1,000 tons or over]

ITEM	1950		1960		1965		1969		1970	
	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Number	Tons
<b>COMMERCIAL VESSELS</b>										
Under construction, Jan. 1.....	39	636	60	979	47	550	63	1,495	49	1,388
Contracted for.....	16	181	23	270	16	166	8	309	13	580
Launched.....	26	422	31	471	17	221	13	271	11	322
Delivered.....	26	415	25	404	18	203	22	416	13	370
Under construction, Dec. 31.....	29	401	58	844	45	513	49	1,388	49	1,609
<b>NAVAL VESSELS</b>										
Under construction, Jan. 1.....	11	42	52	334	101	537	133	701	108	621
Contracted for.....	-	-	19	115	23	158	6	80	6	132
Launched.....	-	-	16	170	15	102	25	142	23	117
Delivered.....	-	-	12	39	18	122	31	159	32	166
Under construction, Dec. 31.....	11	42	59	410	106	573	108	621	82	587

- Represents zero. <sup>1</sup> Adjusted to account for major changes made during construction.

Source: Shipbuilders Council of America, Washington, D.C.; *Annual Report*, and unpublished data.

## No. 919. VESSELS REPAIRED OR CONVERTED IN PRIVATE SHIPBUILDING AND SHIP REPAIR YARDS: 1950 TO 1970

YEAR	TOTAL		VESSELS UNDER 1,000 GROSS TONS		VESSELS OVER 1,000 GROSS TONS	
	Yards reporting <sup>1</sup>	Vessels	Yards reporting	Vessels	Yards reporting	Vessels
1950.....	118	33,287	111	17,993	80	15,294
1955.....	144	35,413	130	21,122	89	14,291
1960.....	159	37,774	132	24,991	93	12,783
1965.....	136	35,600	117	22,900	93	12,700
1966.....	135	33,100	110	19,600	75	13,500
1967.....	130	37,400	112	24,500	85	12,900
1968.....	128	37,200	114	24,300	81	12,900
1969.....	126	36,000	116	22,120	78	13,880
1970.....	122	39,200	110	26,800	75	12,400

<sup>1</sup> Not additive.

Source: Shipbuilders Council of America, Washington, D.C.; *Annual Report*, and unpublished data.

# **No. 920. MERCHANT VESSELS LAUNCHED AND OWNED—WORLD AND UNITED STATES: 1950 TO 1970**

[Vessels of 100 gross tons and over. Excludes sailing ships, nonpropelled craft, and all ships built of wood]

YEAR	WORLD				UNITED STATES			
	Launched		Owned		Launched		Owned	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
1950.....	990	3,489	27,922	83,996	51	437	4,531	27,404
1955.....	1,437	5,315	29,967	100,069	26	73	4,225	26,343
1960.....	2,020	8,356	34,056	129,339	60	485	3,845	24,781
1965.....	2,280	12,216	39,628	159,979	130	270	3,224	21,478
1967.....	2,778	15,780	42,234	181,709	231	242	3,115	20,286
1968.....	2,798	16,908	45,343	193,770	199	441	3,049	19,623
1969.....	2,819	19,315	48,246	211,294	174	400	2,972	19,507
1970.....	2,700	21,690	50,472	227,138	150	338	2,822	18,423

Source: Lloyd's Register of Shipping, London, England; *Register Book Statistical Tables and Annual Summary of Merchant Ships Launched in the World*.

# **No. 921. MERCHANT FLEETS OF THE WORLD, BY TYPE OF VESSEL AND COUNTRY OF REGISTRATION: 1968**

[Vessels of 1,000 gross tons and over. As of December 31. Specified countries have 100 or more ships]

COUNTRY OF REGISTRY	TOTAL		COMBINATION PASSENGER AND CARGO		FREIGHTERS		BULK CARRIERS <sup>1</sup>		TANKERS	
	Number	Average age (years)	Number	Average age (years)	Number	Average age (years)	Number	Average age (years)	Number	Average age (years)
<b>World total.....</b>	<b>19,361</b>	<b>13</b>	<b>989</b>	<b>20</b>	<b>11,868</b>	<b>15</b>	<b>2,609</b>	<b>9</b>	<b>3,895</b>	<b>11</b>
<b>United States.....</b>	<b>2,071</b>	<b>22</b>	<b>195</b>	<b>23</b>	<b>1,511</b>	<b>22</b>	<b>53</b>	<b>23</b>	<b>312</b>	<b>19</b>
Privately owned.....	967	19	25	16	615	19	50	23	277	18
Government-owned.....	1,104	24	170	24	896	24	3	24	35	25
<b>Foreign.....</b>	<b>17,290</b>	<b>12</b>	<b>794</b>	<b>20</b>	<b>10,357</b>	<b>14</b>	<b>2,556</b>	<b>8</b>	<b>3,583</b>	<b>10</b>
Argentina.....	141	22	15	21	70	23	6	22	50	22
Australia.....	102	14	4	11	40	15	45	14	13	9
Brazil.....	227	19	12	34	147	21	21	13	47	11
British Colonies <sup>2</sup> .....	134	15	10	28	85	17	23	8	16	8
China (Taiwan).....	135	17	4	27	115	17	7	15	9	16
China (mainland).....	204	22	22	25	143	23	19	17	20	17
Cyprus.....	112	22	6	32	85	22	11	21	10	16
Denmark.....	332	8	17	20	231	9	27	3	57	6
Finland.....	205	13	7	32	144	12	16	13	38	13
France.....	485	11	30	15	252	12	62	7	141	10
Germany (East).....	119	8	4	15	94	8	10	8	11	11
Germany, Fed. Rep. of.....	909	10	7	14	769	10	80	8	53	8
Greece.....	1,006	18	49	25	704	20	102	9	151	14
India.....	230	11	14	16	176	12	30	3	10	9
Indonesia.....	156	14	30	16	96	15	7	2	23	10
Italy.....	620	17	72	20	270	21	117	10	161	14
Japan.....	1,766	7	27	12	1,096	8	339	5	304	6
Liberia.....	1,613	12	18	19	475	17	471	9	649	11
Netherlands.....	463	10	25	18	311	10	34	7	93	10
Norway.....	1,308	8	31	14	526	11	337	5	414	7
Panama.....	623	22	26	28	381	25	57	20	159	14
Philippines.....	161	17	16	10	122	19	8	15	15	14
Poland.....	204	12	2	24	162	12	34	11	6	14
Spain.....	376	18	39	23	219	21	23	16	95	11
Sweden.....	408	9	6	17	234	10	94	7	74	6
United Kingdom.....	1,840	11	87	17	1,036	11	293	9	424	9
U.S.S.R.....	1,634	10	75	18	1,103	10	134	11	322	8
Yugoslavia.....	188	11	15	16	136	12	18	3	19	7
All others <sup>3</sup> .....	1,589	15	124	22	1,135	15	131	12	199	12

<sup>1</sup> Includes ore carriers and ore/oil carriers.

<sup>2</sup> Comprises Bahama Islands, Bermuda, Cayman Island, Gibraltar, and Hong Kong.

<sup>3</sup> Includes countries with less than 100 merchant type ships of 1,000 gross tons and over.

Source: Dept. of Commerce, Maritime Administration; biennial report, *A Statistical Analysis of the World's Merchant Fleets*, December 1968.

## Section 23

### Agriculture

This section presents statistics concerning the structure of our agricultural economy. Included are data on farms and farm population; land utilization and conservation; farm income, expenditures, and debt; farmer cooperatives; farm output and marketings; trade in agricultural products; and data on specific crops, livestock, poultry, and livestock and poultry products.

The principal sources of these data are reports issued by the Bureau of the Census, which conducts a census of agriculture every 5 years and censuses of irrigation and of drainage every 10 years; and three annual reports, *Agricultural Statistics*, *Crop Production*, and *Crop Values*, issued by the Statistical Reporting Service, Department of Agriculture. Other important sources include *The Balance Sheet of Agriculture*, *Changes in Farm Production and Efficiency*, *The Farm Income Situation*, and other *Situation* reports, issued by the Economic Research Service, Department of Agriculture. Sources of current data on agricultural exports and imports include *Foreign Agricultural Trade*, also published by the Economic Research Service, and the reports of the Bureau of the Census, particularly Report FT 135, *U.S. Imports, General and Consumption, Schedule A Commodity and Country*, and Report FT 410, *U.S. Exports, Schedule B Commodity and Country*.

A census of agriculture has been taken by enumeration of individual farms every 10 years since 1840 and every 5 years since 1920. The first census included such items as numbers of livestock, production of wool, value of poultry and dairy products, and production of principal crops. Data on number, acreage, and value of farms were first obtained in the 1850 census; on farm tenure, in 1880; and on a detailed classification of farmland by use, in 1925. The 1964 Census of Agriculture is the most recent one for which complete data are available. Publication of the 1969 census results began on a flow basis by counties in March 1971. Reports for all counties are scheduled to be completed by late November 1971.

Annual agricultural statistics of a wide variety have been issued by the Department of Agriculture for over 100 years. The 44 field offices of the Statistical Reporting Service collect data from voluntary reporters and from objective yield measurements taken in selected fields. State estimates and other information are sent to the Crop Reporting Board of the Statistical Reporting Service, which issues reports containing State, regional, and national data.

Statistics compiled by the Statistical Reporting Service on crops, livestock and livestock products, agricultural prices, farm employment, and other related subjects are based mainly on data obtained through mail questionnaires. The basic information is obtained from nearly three-fourths of a million reporters, mostly farmers, who report for their own and nearby farms on some 80 crops and scores of other items pertaining to agricultural production and farm family living.

**Farms and farmland.**—In the course of its history, the Bureau of the Census has used varying definitions of a farm. In the 1959, 1964, and 1969 censuses, places of less than 10 acres were counted as farms if estimated sales of agricultural products for the year amounted to at least \$250, and places of 10 or more acres if such sales amounted to at least \$50. In the 1950 and 1954 censuses, places of 3 or more acres were counted as farms if the annual *value* of agricultural products, whether for home use or for sale, but exclusive of home-garden products, amounted to \$150 or more; places of less than 3 acres were counted as farms only if the annual *sales* amounted to \$150 or more. For definitions used in earlier censuses, see *U.S. Census of Agriculture: 1964*, Vol. II, Introduction.

Estimates based on evaluation studies of the 1959 and 1964 census results indicate an underenumeration of 341 thousand farms in 1959, 8.4 percent of the estimated total number, and of 401 thousand farms, or 11.3 percent, in 1964. In both censuses, the estimated underenumeration of land in farms amounted to 71.5 million acres, or 6 percent of the estimated total acreage. Except as noted, data from those censuses have not been adjusted for the estimated underenumeration. Additional details are given in *U.S. Census of Agriculture: 1959, and 1964*; Vol. II, Introduction.

Currently included as farms are such agricultural enterprises as nurseries, greenhouses, hothouses, mushroom houses, and cranberry bogs; excluded are fish farms, fish hatcheries, oyster farms, frog farms, fur farms, apiaries, kennels, game preserves, parks, and the like. In the case of landowners who had one or more tenants, renters, croppers, or managers, the land operated by each was counted as a separate farm.

In the 1964 census, farms classified as commercial were generally those with sales of \$2,500 or more, and also those with sales of \$50 to \$2,499 provided the operator was under 65 years of age and did not work off the farm 100 or more days during the year.

Farmland refers to all land under the control of a farm operator and considered as part of his farm, including land not actually under cultivation or used for pasture or grazing. Rent-free land was included as part of the farm only if the operator had sole use of it. Land used for pasture or grazing that was neither owned nor leased by the farm operator, such as national forests, Taylor grazing land, State or other public lands, and some railroad and other privately owned lands, is not included.

**Soil conservation.**—Soil conservation district legislation has been enacted in all 50 States, Puerto Rico, and the Virgin Islands. Soil conservation districts have broad responsibility and authority for conservation and development of soil, water, and related resources. In most cases, districts have authority to accept Federal, State, county, and private assistance for their soil and water conservation programs.

**Farm income.**—Cash income is the cash receipts from farm marketings and Government payments made directly to farmers for farm related activities. Farm marketings represent quantities of agricultural products sold by farmers multiplied by prices received per unit of production at the local market. Gross farm income includes cash income, value of farm products consumed in farm homes, and rental value of farm homes.

Information on prices received is obtained by the Statistical Reporting Service of the Department of Agriculture from about 33,000 voluntary reporters, including farmers, local merchants, and handlers of agricultural products. Season average prices received by farmers are calculated by weighting midmonth prices by monthly sales during the crop marketing season, beginning with the first month in which a particular crop harvest begins.

**Crop reporting.**—Estimates by the Department of Agriculture's Statistical Reporting Service of crop acreage and production for the census years are set up currently from available information and, if necessary, are later revised to a level based largely on the census enumerations. Estimates for intercensal years are based on sample data obtained each year from individual reporters, supplemented by such data as State assessors' enumerations of agricultural information, reports of carlot shipments, warehouse receipts, local surveys, objective yield counts, personal observations by field statisticians, and reports from other sources. Cotton acreage and production are also based on sample data and on ginning information gathered by the Bureau of the Census.

**Livestock.**—Each census of agriculture from 1840 through 1900 was taken as of June 1. The various quinquennial and decennial censuses since then have been taken

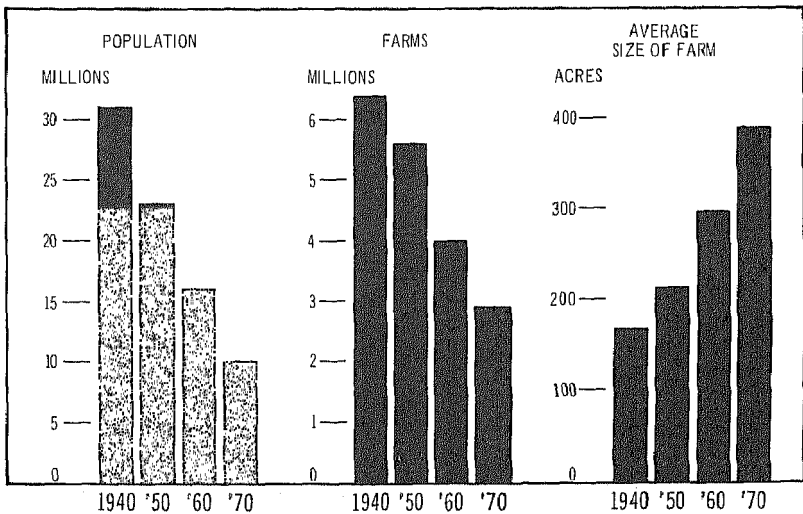
as of January, April, or the fall, as specified in the published results. Comparison of livestock inventories from census to census is seriously affected by changes in date of enumeration. From January to April, and from October and November to January, material changes occur in numbers on hand in most parts of the country, due to births, marketings, farm slaughter, etc. To obtain as much comparability as possible, the censuses taken in April either excluded recently born animals from the enumeration or provided for their enumeration in a separate age group. Volume II of *U.S. Census of Agriculture: 1964* shows a complete history of the enumeration of livestock and analyzes comparability from census to census.

Annual inventory numbers of livestock on farms and estimates of livestock, dairy, and poultry production prepared by the Department of Agriculture are based on information from farmers, supplemented by State assessors' data and by records of brand inspections, rail and truck shipments, and slaughter. The level for these inventories is based largely on interpretations of quinquennial census enumerations.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XXXVIII. FARM POPULATION, FARMS, AND FARM SIZE: 1940 TO 1970

[See tables 922 and 924]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of Agriculture, Economic Research Service.



## No. 922. FARM POPULATION AND COMPONENTS OF CHANGE: 1920 TO 1970

(In thousands, except as indicated. Prior to 1959, excludes Alaska and 1960, Hawaii. Beginning 1945, figures provide a continuous series approximating the current definition of farm population; see text, p. 2. See *Historical Statistics, Colonial Times to 1957*, series C 74-79, for estimates for 1920 to 1944.)

YEAR	Farm population, Apr. 1	NET CHANGE SINCE PRECEDING APRIL		Farm population as percent of total population <sup>2</sup>	YEAR	Farm population, Apr. 1	NET CHANGE SINCE PRECEDING APRIL		Farm population as percent of total population <sup>2</sup>
		Births and deaths	Migration <sup>1</sup>				Births and deaths	Migration <sup>1</sup>	
1920.....	31,974	(NA)	(NA)	30.1	1956.....	18,712	261	-627	11.2
1925.....	31,190	500	-487	27.0	1957.....	17,655	239	-1,295	10.4
1930.....	30,529	426	-477	24.9	1958.....	17,128	220	-748	9.9
1935.....	32,161	383	-527	25.3	1959.....	16,592	203	-740	9.4
1940.....	30,547	410	-703	23.2	1960.....	16,635	184	-1,142	8.7
1945.....	24,420	363	-748	17.5	1961.....	14,803	168	-1,000	8.1
1947.....	25,829	470	-44	18.0	1962.....	14,313	156	-646	7.7
1948.....	24,383	443	-1,889	16.7	1963.....	13,367	140	-1,086	7.1
1949.....	24,194	397	-586	16.3	1964.....	12,954	121	-533	6.8
1950.....	23,048	392	-1,537	15.3	1965.....	12,363	112	-703	6.4
1951.....	21,890	373	-1,531	14.2	1966.....	11,595	90	-858	5.9
1952.....	21,748	341	-483	13.9	1967.....	10,875	73	-793	5.5
1953.....	19,874	328	-2,201	12.5	1968.....	10,454	60	-481	5.2
1954.....	19,019	296	-1,151	11.8	1969.....	10,307	51	-198	5.1
1955.....	19,078	268	-210	11.6	1970.....	9,712	<sup>a</sup> 47	<sup>a</sup> -642	4.8

Armed Forces, and persons returning from Armed who were in and out of the farm population because place where they were living.

Source: Dept. of Agriculture, Economic Research Service; *Farm Population, Estimates for 1910-62*, and annual report, *Farm Population Estimates*.

## No. 923. FARM POPULATION CHARACTERISTICS: 1960 AND 1970

(In thousands, except as indicated. 1960, as of April; 1970, April-centered annual averages.)

CHARACTERISTIC	TOTAL		MALE		FEMALE		PERCENT DISTRIBUTION, BOTH SEXES	
	1960	1970	1960	1970	1960	1970	1960	1970
Total.....	15,669	9,712	8,184	5,004	7,485	4,708	100.0	100.0
White.....	13,092	8,775	6,871	4,524	6,221	4,251	83.6	90.4
Negro and other.....	2,577	938	1,313	480	1,264	458	16.4	9.7
Under 14 years of age.....	4,995	2,490	2,586	1,274	2,409	1,216	31.9	25.6
14 years of age and over.....	10,674	7,222	5,598	3,730	5,076	3,492	68.1	74.4
14-19 years.....	1,868	1,316	1,011	714	857	602	11.9	13.6
20-24 years.....	763	502	426	269	337	232	4.9	5.2
25-34 years.....	1,461	770	781	371	730	399	9.3	7.9
35-44 years.....	1,803	1,061	881	518	922	543	11.5	10.9
45-64 years.....	3,453	2,452	1,830	1,259	1,623	1,192	22.0	25.3
65 years and over.....	1,826	1,122	719	590	607	523	8.5	11.6
In labor force, 14 years of age and over.....	6,266	4,293	4,743	2,974	1,523	1,319	58.7	59.4
Employed in agriculture.....	4,025	2,338	3,388	1,902	637	431	64.2	54.3
Self-employed.....	2,405	1,411	2,313	1,352	92	59	38.4	32.0
Wage and salary.....	782	395	691	349	91	46	12.5	9.2
Unpaid family workers.....	838	526	384	200	454	326	13.4	12.3
Employed in nonagricultural industries.....	2,064	1,878	1,252	1,030	812	849	33.0	43.7
Self-employed.....	( <sup>2</sup> )	159	( <sup>2</sup> )	112	( <sup>2</sup> )	47	( <sup>2</sup> )	3.7
Wage and salary.....	( <sup>2</sup> )	1,698	( <sup>2</sup> )	912	( <sup>2</sup> )	786	( <sup>2</sup> )	39.6
Unpaid family workers.....	( <sup>2</sup> )	21	( <sup>2</sup> )	5	( <sup>2</sup> )	16	( <sup>2</sup> )	0.6
Not in labor force.....	4,408	2,920	855	756	3,553	2,173	41.3	40.6

<sup>1</sup> Includes unemployed, not shown separately. <sup>2</sup> Comparable figures not available.

Source: Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-27, No. 42.

## No. 924. FARMS—NUMBER AND ACREAGE: 1920 TO 1971

Prior to 1959, excludes Alaska and Hawaii. Estimated. For definition of farms and farmland, see text, pp. 569-571. See also *Historical Statistics, Colonial Times to 1957*, series K 1-2

YEAR	FARMS <sup>1</sup>		LAND IN FARMS		YEAR	FARMS <sup>1</sup>		LAND IN FARMS	
	Number (1,000)	Annual change <sup>2</sup> (1,000)	Total (mil. acres)	Average per farm (acres)		Number (1,000)	Annual change <sup>2</sup> (1,000)	Total (mil. acres)	Average per farm (acres)
1920 .....	6,518	(X)	956	147	1957 .....	4,372	-142	1,191	273
1925 .....	6,471	-9	924	143	1958 .....	4,233	-139	1,185	280
1930 .....	6,546	15	987	151	1959 .....	4,105	-128	1,183	288
1935 .....	6,814	54	1,055	155	1960 .....	3,962	-143	1,177	297
1940 .....	6,350	-93	1,061	167	1961 .....	3,821	-141	1,170	306
1945 .....	5,987	-77	1,142	191	1962 .....	3,685	-136	1,161	315
1948 .....	5,803	-55	1,152	199	1963 .....	3,561	-124	1,153	324
1949 .....	5,722	-81	1,155	202	1964 .....	3,442	-119	1,147	333
1950 .....	5,648	-74	1,202	213	1965 .....	3,340	-102	1,142	342
1951 .....	5,428	-220	1,204	222	1966 .....	3,239	-101	1,137	351
1952 .....	5,198	-230	1,205	232	1967 .....	3,146	-93	1,132	360
1953 .....	4,984	-214	1,206	242	1968 .....	3,054	-92	1,128	369
1954 .....	4,798	-186	1,206	251	1969 .....	2,971	-83	1,124	378
1955 .....	4,654	-144	1,202	258	1970 .....	2,924	-47	1,121	383
1956 .....	4,514	-140	1,197	265	1971 (prel.) ..	2,876	-48	1,118	389

X. Not applicable.

<sup>1</sup> Census Years (indicated by italics) have been adjusted for underenumeration and for changes in definition of a farm; intercensal years are based on trend and on indications of change in acreage and livestock surveys.

<sup>2</sup> Average annual change from preceding year shown.

Source: Dept. of Agriculture, Statistical Reporting Service; *Number of Farms, 1910-1959; Land in Farms, 1950-1959*, By States, 1962 (Statistical Bulletin No. 316), supplemented annually by *Number of Farms and Land in Farms*; and unpublished data.

## No. 925. CHARACTERISTICS OF FARM OPERATORS: 1959 AND 1964

[Number in thousands; income in millions of dollars, except as indicated]

ITEM	1959 <sup>1</sup>		1964		ITEM	1959 <sup>1</sup>		1964	
	Total	Per-cent	Total	Per-cent		Total	Per-cent	Total	Per-cent
<b>Total</b> .....	3,708	100.0	3,158	100.0	<b>School years completed:</b>				
<b>Race and residence:</b>					Less than 5 .....	(NA)	(NA)	226	7.1
White .....	3,423	92.3	2,958	93.7	8 (elementary school) ..	(NA)	(NA)	851	26.9
Negro and other .....	285	7.7	200	6.3	12 (high school) .....	(NA)	(NA)	763	24.2
North .....	1,715	46.3	1,480	46.9	16 or more (college) ..	(NA)	(NA)	139	4.4
South .....	1,645	44.4	1,373	43.5	<b>Years on present farm:</b>				
White .....	1,379	37.2	1,188	37.6	Less than 5 .....	639	17.2	612	19.4
Negro and other .....	266	7.2	185	5.8	5-9 .....	630	17.0	469	14.9
West .....	349	9.4	306	9.7	10 or more .....	2,340	63.1	1,906	60.4
<b>Residence:</b>					Not reporting .....	100	2.7	171	5.4
On-farm operated .....	3,236	87.3	2,774	87.8	<b>Days working off farm:</b>				
Off-farm operated .....	267	7.2	291	9.2	Less than 100 .....	556	15.0	449	14.2
Not reporting .....	207	5.6	93	2.9	100-199 .....	230	6.2	189	6.0
<b>Age:</b>					200 or more .....	378	23.7	824	26.1
Under 25 years .....	62	1.7	53	1.7	None or not reporting ..	2,044	55.1	1,696	53.7
25-34 years .....	403	10.9	309	9.8	<b>Households reporting</b>				
35-44 years .....	806	21.7	654	20.7	income <sup>1,2</sup> .....	(NA)	(NA)	2,564	81.2
45-54 years .....	980	26.4	851	27.0	<b>Total income</b> .....	(NA)	(NA)	10,053	100.0
55-64 years .....	803	21.6	742	23.5	Wages and salaries ..	(NA)	(NA)	6,451	64.2
65 years or more .....	617	16.6	548	17.4	Nonfarm business or				
Not reporting age .....	37	1.0	(X)	(X)	profession .....	(NA)	(NA)	1,155	11.5
<b>Average age</b> .....	50.5	(X)	51.3	(X)	Social insurance <sup>3</sup> ..	(NA)	(NA)	842	8.4
					Other .....	(NA)	(NA)	1,605	16.0

NA. Not available. X. Not applicable. <sup>1</sup> Based on sample.

<sup>2</sup> From sources other than farm operated. <sup>3</sup> Social security, pensions, and veterans and welfare payments.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1964*, Vol. II.

## No. 926. FARMS—NUMBER, BY SIZE, 1940 TO 1964, AND BY ACREAGE, 1964

[1954 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1867*, series K 61-72]

SIZE OF FARM	NUMBER OF FARMS (1,000)					1964				
	1940	1950	1954	1959	1964	Land in farms (1,000 acres)	Crop-land harvested (1,000 acres)	Percent distribution		
								Number of farms	All land in farms	Crop-land harvested
Total.....	6,102	5,388	4,782	3,711	3,158	1,110,187	286,892	100.0	100.0	100.0
Under 10 acres.....	509	489	484	244	183	778	360	5.8	0.1	0.1
10-49 acres.....	1,782	1,480	1,213	813	637	17,327	6,072	20.2	1.6	2.1
50-99 acres.....	1,291	1,048	884	658	542	39,890	13,239	17.2	3.6	4.6
100-179 acres.....	1,810	1,103	953	773	633	86,898	34,392	20.1	7.8	12.0
180-259 acres.....	486	487	464	414	355	76,854	33,798	11.3	6.9	11.8
260-499 acres.....	450	478	482	472	451	159,597	72,006	14.3	14.4	25.1
500-999 acres.....	164	182	192	200	210	144,598	57,211	6.6	13.0	19.9
1,000-1,999 acres.....	101	121	130	79	85	115,993	35,363	2.7	10.4	12.3
2,000 acres and over.....				57	60	468,854	34,453	1.9	42.2	12.0

## No. 927. FARMS—NUMBER, ACREAGE, AND VALUE OF SALES, BY ECONOMIC CLASS: 1959 AND 1964

[Based on reports for a sample of farms. For definition of commercial farm, see text, p. 570]

ECONOMIC CLASS OF FARMS (value of farm products sold)	Farms (1,000)	ACREAGE		VALUE OF SALES		PERCENT DISTRIBUTION		
		Total (1,000)	Average per farm	Total (mil. dol.)	Average per farm (dol.)	Farms	Acreage, total	Value of sales, total
1959								
Commercial farms.....	2,416	977,276	405	29,463	12,195	100.0	100.0	100.0
\$50-\$2,499.....	349	37,100	106	461	1,321	14.4	3.8	1.6
\$2,500-\$4,999.....	618	118,546	192	2,275	3,683	25.6	12.1	7.7
\$5,000-\$9,999.....	654	189,531	288	4,723	7,222	27.1	19.3	16.0
\$10,000-\$19,999.....	483	214,907	445	6,705	13,882	20.0	22.0	22.8
\$20,000-\$39,999.....	210	166,444	791	5,648	26,842	8.7	17.0	19.2
\$40,000 or more.....	102	251,748	2,466	9,651	94,531	4.2	25.8	32.8
Other farms <sup>1</sup> .....	1,292	146,103	113	1,162	900	100.0	100.0	100.0
1964								
Commercial farms.....	2,166	965,458	446	34,369	15,869	100.0	100.0	100.0
\$50-\$2,499.....	348	42,484	122	364	1,044	16.1	4.4	1.1
".....	444	91,540	206	1,611	3,629	20.5	9.5	4.7
".....	605	167,921	313	3,653	7,240	23.3	16.4	10.6
".....	467	217,356	465	6,614	14,160	21.6	22.5	19.2
".....	260	185,726	715	7,114	27,373	12.0	19.2	20.7
\$40,000 or more.....	142	270,430	1,906	15,012	105,786	6.6	28.0	43.7
Other farms <sup>1</sup> .....	992	144,729	146	925	932	100.0	100.0	100.0

<sup>1</sup> Part-time, part-retirement, and abnormal farms. For definition, see source.Source of tables 926 and 927: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1964*, Vol. II.

## No. 928. INCOME PER FARM-OPERATOR FAMILY, BY VALUE OF SALES CLASS: 1960, 1965, AND 1970

[Covers only farms with sales of products]

SALES CLASS	1960			1965			1970		
	Total income <sup>1</sup>	Realized net income <sup>1</sup>	Off-farm income <sup>1</sup>	Total income <sup>1</sup>	Realized net income <sup>1</sup>	Off-farm income <sup>1</sup>	Total income <sup>1</sup>	Realized net income <sup>1</sup>	Off-farm income <sup>1</sup>
All farms.....	\$5,102	\$2,962	\$2,140	\$7,941	\$4,190	\$3,751	\$11,207	\$5,374	\$5,833
Less than \$2,500.....	3,581	850	2,731	5,620	974	4,646	9,013	1,059	7,954
\$2,500-\$4,999.....	3,810	1,061	1,849	5,442	1,972	3,470	7,514	2,040	5,465
\$5,000-\$9,999.....	4,878	3,305	1,573	6,752	3,519	3,233	8,476	3,492	4,984
\$10,000-\$19,999.....	6,626	5,368	1,258	8,515	6,199	2,316	9,060	6,208	2,852
\$20,000-\$39,999.....	10,330	8,652	1,678	12,449	9,937	2,512	13,465	9,962	3,503
\$40,000 and over.....	21,132	18,955	2,177	29,920	25,451	4,469	31,467	25,664	5,803

<sup>1</sup> Includes Government payments and nonmoney income from farm food and housing.Source: Dept. of Agriculture, Economic Research Service; *The Farm Income Situation*.

## No. 929. FARMS—NUMBER, ACREAGE, AND VALUE, BY STATES: 1959 AND 1964

[For composition of regions, see fig. I, p. xii]

STATE	NUMBER OF FARMS (1,000)		ALL LAND IN FARMS (1,000 acres)		AVERAGE ACREAGE PER FARM		TOTAL VALUE <sup>1</sup> (mil. dol.)		AVERAGE VALUE PER FARM <sup>1</sup> (\$1,000)		VALUE OF FARM PRODUCTS SOLD (mil. dol.)	
	1959	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959	1964
U.S.....	3,711	3,158	1,123,508	1,110,187	303	352	129,005	159,932	35	51	30,493	35,294
North.....	1,715	1,480	421,440	415,069	246	281	61,701	71,082	36	48	15,294	17,414
South.....	1,046	1,373	357,448	346,228	217	262	39,011	52,088	24	38	8,884	10,586
West.....	349	306	344,620	348,800	987	1,142	28,233	36,781	81	120	0,315	7,298
N.E.....	56	42	9,315	7,744	164	185	1,414	1,459	25	35	592	717
Maine.....	17	13	3,082	2,590	178	201	256	257	16	20	171	280
N.H.....	7	5	1,124	903	172	194	118	118	18	25	48	49
Vt.....	12	9	2,045	2,524	243	273	240	275	20	30	109	115
Mass.....	11	8	1,142	902	102	113	364	349	32	43	126	139
R.I.....	1	1	138	104	99	94	52	51	38	40	18	19
Conn.....	8	6	884	721	107	119	393	409	47	67	120	130
M.A.....	197	161	26,731	24,235	135	151	4,879	5,442	25	31	1,699	1,859
N.Y.....	82	67	13,490	12,275	164	185	1,971	2,181	24	33	765	863
N.J.....	15	11	1,879	1,166	89	109	717	782	46	73	231	216
Pa.....	100	83	11,882	10,804	119	130	2,190	2,470	22	30	713	791
E.N.C.....	666	574	103,386	99,487	155	173	24,737	27,909	37	49	5,204	6,106
Ohio.....	140	120	18,607	17,619	132	146	4,573	5,221	33	43	863	1,013
Ind.....	128	108	18,613	17,933	146	166	4,933	5,582	38	52	946	1,105
Ill.....	155	133	30,327	29,958	196	226	9,580	10,744	62	81	1,811	2,123
Mich.....	112	94	14,783	13,599	132	145	2,855	3,182	26	34	623	766
Wis.....	131	119	21,166	20,378	161	172	2,796	3,180	21	27	951	1,069
W.N.C.....	795	703	282,008	283,603	355	403	30,732	36,272	39	52	7,800	8,734
Minn.....	146	131	30,796	30,805	211	235	4,749	5,125	33	39	1,212	1,376
Iowa.....	175	154	33,831	33,758	194	219	8,587	9,181	49	60	2,284	2,597
Mo.....	169	147	33,155	32,692	197	222	3,727	4,928	22	33	1,012	1,053
N. Dak.....	55	49	41,466	42,717	755	875	2,141	2,854	39	58	469	570
S. Dak.....	55	50	44,551	45,567	805	917	2,277	2,814	41	57	514	629
Nebr.....	90	80	47,756	47,793	528	596	4,234	5,232	47	65	1,198	1,334
Kans.....	104	92	50,163	50,271	481	544	5,017	6,138	48	66	1,111	1,175
S.A.....	592	468	83,341	76,960	141	164	12,832	16,156	22	35	3,247	4,143
Del.....	5	4	763	717	146	163	180	235	35	53	86	108
Md.....	25	21	3,457	3,181	138	153	982	1,349	39	65	281	276
Va.....	98	80	13,126	12,002	135	149	1,819	2,215	19	28	424	470
W. Va.....	44	35	6,063	5,279	138	153	450	478	10	14	90	92
N.C.....	191	148	15,888	14,382	83	97	2,949	3,622	15	24	797	1,068
S.C.....	78	56	9,149	8,101	117	144	1,226	1,403	16	25	303	349
Fla.....	106	83	19,658	17,887	185	215	1,908	2,431	18	29	607	826
Ala.....	45	41	15,237	15,411	338	380	3,317	4,423	74	109	700	954
E.S.C.....	563	468	68,285	64,509	121	138	7,855	10,252	14	22	1,973	2,382
Ky.....	151	133	17,031	16,265	113	122	2,305	2,058	15	22	518	502
Tenn.....	158	133	16,081	15,266	102	114	2,095	2,737	13	21	475	529
Ala.....	116	93	10,543	15,226	143	165	1,480	1,902	13	21	414	537
Miss.....	138	109	18,630	17,752	135	163	1,974	2,655	14	24	566	724
W.S.C.....	491	436	205,825	204,759	419	469	18,324	25,659	37	60	3,664	4,063
Ark.....	95	80	16,450	16,565	173	207	1,797	2,935	19	37	639	830
La.....	74	62	10,347	10,411	139	167	1,766	2,413	24	39	335	407
Okl.....	95	80	35,801	36,077	378	407	3,002	4,356	32	40	581	601
Tex.....	227	205	143,218	141,706	631	691	11,759	15,945	52	78	2,100	2,226
Mt.....	149	134	264,428	268,004	1,774	1,998	10,878	13,650	73	102	2,354	2,538
Mont.....	29	27	64,081	65,834	2,213	2,437	2,223	2,791	77	103	377	390
Idaho.....	34	30	15,232	15,302	452	518	1,701	2,022	51	68	438	478
Wyo.....	10	9	30,200	37,053	3,715	4,100	774	1,043	70	115	162	151
Colo.....	33	30	38,787	38,259	1,162	1,284	2,053	2,687	61	90	580	612
N. Mex.....	16	14	46,293	47,647	2,908	3,354	1,086	1,663	68	117	197	227
Ariz.....	7	6	40,203	40,559	5,558	6,262	1,951	2,141	270	331	388	469
Utah.....	18	16	12,689	12,867	712	817	755	910	42	58	156	160
Nev.....	2	2	10,943	10,493	4,049	4,862	334	393	142	182	57	51
Pac.....	200	172	80,190	80,886	401	472	17,355	23,131	(NA)	135	3,953	4,756
Wash.....	52	45	18,717	19,063	363	418	2,455	2,931	48	64	569	637
Oreg.....	43	40	21,236	20,509	499	516	1,857	2,349	44	59	412	428
Calif.....	99	81	36,888	37,011	372	458	13,026	17,352	131	215	2,822	3,499
Alaska.....	(2)	(2)	888	1,960	2,421	5,129	18	18	48	47	3	4
Hawaii.....	6	5	2,461	2,354	394	484	(NA)	481	(NA)	99	152	188

NA Not available. Z Less than 500.

<sup>1</sup> Based on reports for a sample of farms; for 1959, excludes Hawaii.

Source: Dept. of Commerce, Bureau of the Census; U.S. Census of Agriculture: 1964, Vol II.

### No. 930. FARMS—NUMBER, BY TYPE, 1959 AND 1964, AND BY REGIONS, 1964

[Based on reports for a sample of farms. In general, a farm was classified as a particular type if its sales of a particular product or group of products amounted to 50 percent or more of total value of farm products sold. For definition of commercial farm, see text, p. 570. For composition of regions, see fig. I, p. xii]

TYPE OF FARM	1959		1964				
	Number	Percent	United States		Region		
			Total	Percent	North	South	West
All farms.....	3,707,973	100.0	3,157,857	100.0	1,479,581	1,372,732	305,544
Commercial farms.....	2,416,017	65.2	2,165,712	68.6	1,137,087	819,849	208,776
Cash grain.....	398,047	10.7	404,253	12.8	309,860	66,438	27,955
Cotton.....	241,849	6.5	164,076	5.2	3,484	154,336	6,256
Other field crop.....	38,332	1.0	35,130	1.1	7,996	18,184	8,950
Vegetable.....	21,912	0.6	23,207	0.7	9,005	9,137	5,065
Fruit and nut.....	61,410	1.7	67,266	1.8	12,236	12,595	32,425
Dairy.....	428,293	11.6	366,987	11.6	286,765	57,982	22,220
Poultry.....	103,279	2.8	82,120	2.6	28,884	46,998	6,238
Livestock, incl. ranches <sup>1</sup> .....	684,061	18.4	580,811	18.4	348,876	168,018	63,917
Tobacco and miscellaneous.....	227,212	6.2	249,912	8.0	31,141	207,382	11,389
General.....	211,613	5.7	201,980	6.4	98,840	78,779	24,361
Other farms <sup>2</sup> .....	1,291,956	34.8	992,145	31.4	342,494	552,884	96,767

<sup>1</sup> Excludes dairy and poultry. <sup>2</sup> Part-time, part-retirement, and abnormal. For definition, see source.

### No. 931. VALUE OF ALL FARM PRODUCTS SOLD, BY TYPE OF PRODUCT, 1959 AND 1964, AND BY REGIONS, 1964

[In millions of dollars. For composition of regions, see fig. I, p. xii]

PRODUCT	1959		1964				
	Total	Percent	United States		Region		
			Total	Percent	North	South	West
All farm products sold <sup>1</sup> .....	30,493	100.0	35,294	100.0	17,414	10,586	7,293
Field crops <sup>2</sup> .....	10,493	34.4	12,870	36.5	5,517	5,044	2,309
Vegetables.....	740	2.4	987	2.8	227	272	488
Fruits and nuts.....	1,398	4.6	1,674	4.7	247	405	933
Horticultural specialties <sup>3</sup> .....	803	2.6	880	2.5	407	267	206
Dairy products.....	4,022	13.2	4,637	13.1	3,076	882	679
Poultry and poultry products.....	2,268	7.4	3,063	8.7	1,091	1,564	418
Livestock and livestock products <sup>4</sup> .....	4,078	13.4	11,141	31.6	6,834	2,059	2,248

<sup>1</sup> 1964 includes items not shown separately. <sup>2</sup> Other than vegetables and fruits and nuts.

<sup>3</sup> Includes forest products. <sup>4</sup> Based on sample. <sup>5</sup> Other than dairy and poultry.

Source of tables 930 and 931: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1964*, Vol. II.

### No. 932. FARMER COOPERATIVES—NUMBER, MEMBERSHIPS, AND BUSINESS: 1950 TO 1969

[For years ending June 30, with limited exceptions. 1950 excludes Alaska and Hawaii. Comprises independent local associations, federations, large-scale centralized associations, and sales agencies. Data are for marketing season during which farm products are moved into channels of trade. Marketing seasons overlap. See also *Historical Statistics, Colonial Times to 1887*, series K 181-189]

YEAR	COOPERATIVES LISTED			ESTIMATED MEMBER-SHIPS <sup>2</sup> (1,000)			ESTIMATED BUSINESS <sup>3</sup> (mil. dol.)		
	Total	Marketing <sup>1</sup>	Farm supply	Total	Marketing <sup>1</sup>	Farm supply	Total	Marketing <sup>1</sup>	Farm supply
1950.....	10,035	6,922	3,113	6,584	4,075	2,509	8,726	7,083	1,643
1955.....	9,903	6,557	3,346	7,694	4,281	3,413	9,642	7,620	2,022
1960.....	9,845	6,048	3,797	7,273	3,673	3,600	12,036	9,628	2,408
1965.....	8,583	5,498	3,085	7,082	3,831	3,251	14,742	11,832	2,910
1966.....	8,329	5,380	2,949	6,826	3,672	3,154	15,608	12,523	3,085
1967.....	8,125	5,254	2,871	6,502	3,333	3,169	16,557	13,218	3,339
1968.....	7,940	5,105	2,835	6,445	3,255	3,197	17,034	13,513	3,521
1969 (prel.).....	7,747	4,954	2,793	6,364	3,174	3,190	17,396	13,796	3,600

<sup>1</sup> Includes service associations. <sup>2</sup> Excludes nonvoting patrons.

<sup>3</sup> Based on patrons and charges for rendering other services in marketing or duplication resulting from intercooperative business.

Source: Dept. of Agriculture, Farmer Cooperative Service; annual report, *Statistics of Farmer Cooperatives*.

# No. 933. FARMS—NUMBER, ACREAGE, AND VALUE, BY TENURE OF OPERATOR: 1940 TO 1964

[Number of farms in thousands; land in farms in millions of acres, except as indicated. Minority race breakdown for "all farms" for 1954 and 1959, and average value of farms, 1950 through 1964, based on sample. See also *Historical Statistics, Colonial Times to 1957*, series K 8-52]

ITEM	All farms	Full owner	Part owner	Manager	TENANT	
					Total	Percent of all farms
<b>Number of farms:</b>						
United States: 1940.....	6,102	3,085	610	37	2,365	38.8
1950.....	5,388	3,092	826	24	1,447	26.9
1954 <sup>1</sup> .....	4,782	2,737	857	21	1,188	24.4
1959.....	3,711	2,119	811	21	780	20.5
1964.....	3,158	1,818	782	18	540	17.1
South: 1940.....	3,007	1,328	217	14	1,449	48.2
1950.....	2,652	1,411	326	10	905	34.1
1954.....	2,317	1,266	345	9	696	30.0
1959.....	1,646	942	314	9	381	23.1
1964.....	1,373	809	304	7	254	18.5
Minority races: 1940.....	680	142	31	(Z)	507	74.6
1950.....	559	141	52	(Z)	386	68.5
1954.....	463	130	51	(Z)	283	60.9
1959.....	286	90	38	(Z)	138	51.9
1964.....	185	71	31	(Z)	82	44.3
<b>Land in farms:</b>						
United States: 1940.....	1,065	382	301	69	313	29.4
1950.....	1,161	419	423	107	212	18.3
1954 <sup>1</sup> .....	1,158	396	470	100	193	16.7
1959.....	1,124	349	498	110	167	14.9
1964.....	1,110	310	533	113	145	13.1
<b>Average value of land and buildings:</b>						
United States: 1940.....	\$5,532	\$4,959	\$9,936	\$42,208	\$4,566	(X)
1950.....	13,932	10,719	25,137	163,043	12,926	(X)
1954 <sup>1</sup> .....	19,761	14,511	35,764	165,800	19,464	(X)
1959 <sup>2</sup> .....	33,175	22,478	56,660	244,714	36,159	(X)
1964.....	50,646	(NA)	(NA)	(NA)	(NA)	(X)

NA Not available. X Not applicable. Z Less than 500.

<sup>1</sup> Excludes Alaska and Hawaii. <sup>2</sup> Excludes Hawaii.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II, and 1964, Vol. II.

# No. 934. FARM FACILITIES OF FARM-OPERATOR FAMILIES, 1940 TO 1964, AND BY REGIONS, 1964

[In thousands, except percent. 1940 excludes Alaska and Hawaii. For 1964 data by States, see 1970 *Statistical Abstract*, p. 597. For composition of regions, see fig. I, p. xii]

ITEM	1940	1959	1959	1964 <sup>1</sup>			
				U.S.	Region		
					North	South	West
Motortrucks, farms reporting.....	944	1,843	2,177	2,167	1,045	868	254
Number on farms.....	1,047	2,214	2,834	3,030	1,397	1,136	497
Automobiles, farms reporting.....	3,542	3,393	2,957	2,675	1,373	1,030	272
Number on farms.....	4,144	4,204	3,635	3,593	1,879	1,318	306
Tractors, farms reporting.....	1,410	2,526	2,630	2,520	1,361	907	252
Number on farms.....	1,567	3,612	5,139	5,486	3,290	1,684	611
<b>Percent of farms reporting—</b>							
Telephone.....	25.0	38.2	65.0	76.2	87.7	61.8	85.2
Home food freezer.....	(NA)	12.1	55.8	72.5	77.6	66.9	75.3
Income (other than value of farm sales).....	(NA)	(NA)	35.8	81.2	80.3	82.4	80.1

NA Not available. <sup>1</sup> Based on reports for a sample of farms.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959* Vol. II and 1964, Vol. II.

## NO. 935. LAND UTILIZATION, FARM AND NONFARM: 1930 TO 1964

[In millions of acres, except percent. Prior to 1950, excludes Alaska and Hawaii]

MAJOR USE	1930		1940		1950		1959		1964	
	Land	Per cent	Land	Per cent	Land	Per cent	Land	Per cent	Land	Per cent
Total land area.....	1,903	100.0	1,905	100.0	2,273	100.0	2,271	100.0	2,266	100.0
In farms.....	987	51.9	1,061	55.7	1,162	51.1	1,124	49.5	1,110	49.0
Cropland <sup>1</sup> .....	413	21.7	399	20.9	409	18.0	392	17.3	387	17.1
Grassland pasture <sup>2</sup> .....	379	19.9	461	24.2	486	21.4	532	23.4	547	24.1
Woodland pasture.....	85	4.5	100	5.2	135	5.9	93	4.1	82	3.6
Woodland not pastured.....	65	3.4	57	3.0	86	3.8	70	3.1	64	2.8
Farmsteads, roads, and other land.....	45	2.4	44	2.3	46	2.0	37	1.6	30	1.3
Not in farms.....	916	48.1	844	44.3	1,111	48.9	1,147	50.5	1,156	51.0
Grazing land <sup>3</sup> .....	578	30.4	504	26.4	402	17.7	319	14.0	293	12.9
Forest land not grazed <sup>4</sup> .....	208	10.9	203	10.7	368	16.2	438	19.3	443	19.5
Other land <sup>5</sup> .....	130	6.8	137	7.2	341	15.0	390	17.2	420	18.5

<sup>1</sup> Comprises cropland used for crops, soil improvement crops, and idle cropland.<sup>2</sup> Includes cropland used only for pasture.<sup>3</sup> Includes grassland, arid woodland, and shrub and other forested land grazed.<sup>4</sup> Excludes forest areas in parks and most other special uses.<sup>5</sup> Comprises urban, industrial, and residential areas; rural parks; wildlife refuges; highway, road, and railroad rights-of-way; ungrazed desert; rocky, barren, swamp, tundra, and other land not otherwise counted.Source: Dept. of Agriculture, Economic Research Service. In annual report, *Agricultural Statistics*.

## NO. 936. FEDERAL IRRIGATION PROJECTS: 1950 TO 1969

[Acreage in thousands; value in millions of dollars]

YEAR	ENTIRE AREA			FULL IRRIGATION SERVICE <sup>1</sup>			SUPPLEMENTAL AND TEMPORARY IRRIGATION SERVICE <sup>2</sup>		
	Irrigable acreage	Irrigated acreage	Gross crop value	Irrigable acreage	Irrigated acreage	Gross crop value	Irrigable acreage	Irrigated acreage	Gross crop value
1950.....	6,025	5,077	578	3,305	2,716	311	2,720	2,361	267
1955.....	7,368	6,282	828	3,826	3,163	429	3,542	3,099	399
1960.....	8,171	6,900	1,158	4,326	3,488	581	3,845	3,412	577
1965.....	9,612	8,012	1,557	4,540	3,731	675	5,072	4,281	882
1967.....	10,037	8,441	1,822	4,619	3,867	787	5,418	4,574	1,055
1968.....	9,904	8,387	1,840	4,683	3,940	813	5,221	4,447	1,027
1969.....	10,140	8,576	1,885	4,839	4,070	867	5,301	4,506	1,018

<sup>1</sup> Applies to irrigable land receiving its sole irrigation supply through Bureau of Reclamation-constructed facilities and to previously irrigated land in non-Federal projects where a substantial part of the facilities was constructed, rehabilitated, or replaced by the Bureau.<sup>2</sup> Applies to irrigable land receiving irrigation water through Bureau projects in addition to supply from non-project sources and to land for which water is delivered under temporary arrangements.Source: Dept. of the Interior, Bureau of Reclamation; annual report, *Federal Reclamation Projects, Water and Land Resources Accomplishments*.

## NO. 937. GROWTH OF CONSERVATION DISTRICTS: 1950 TO 1970

[For years ending June 30. Includes Puerto Rico and Virgin Islands]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
Number organized:								
Each year.....	121	56	6	18	15	2	5	9
Cumulative total.....	2,285	2,674	2,867	2,989	3,010	3,012	3,017	3,026
With supplemental memorandum: <sup>1</sup>								
Each year.....	133	63	23	13	13	11	7	—1
Cumulative total.....	2,207	2,644	2,837	2,921	2,953	2,964	2,971	2,970
Area in districts:								
New and additions.....mil. acres.....	75	43	10	14	13	16	8	5
Cumulative total.....mil. acres.....	1,253	1,485	1,672	1,753	1,782	1,798	1,806	1,811

<sup>1</sup> Signed for assistance from Soil Conservation Service.Source: Dept. of Agriculture, Soil Conservation Service; *Report of Administrator of Soil Conservation Service*.

## No. 938. PESTICIDES—PRODUCTION AND EXPORTS: 1950 TO 1969

[In thousands of pounds]

ITEM	1950	1955	1960	1965	1967	1968	1969
<b>Production:</b>							
Aldrin-toxaphene group <sup>1</sup> .....	(NA)	77,025	99,671	118,832	120,183	115,974	107,311
Calcium arsenate.....	45,348	3,770	6,590	4,192	2,040	3,398	2,732
Copper sulfate.....	174,600	156,176	116,000	94,656	80,256	87,568	101,136
2,4-D acid.....	14,156	34,516	36,185	63,320	77,139	79,263	47,077
DDT.....	78,150	129,693	164,180	140,783	103,411	139,401	123,103
Ferbam.....	(NA)	(NA)	2,529	2,384	2,331	1,900	(NA)
Lead arsenate.....	39,434	14,776	10,062	7,098	6,952	9,016	9,394
Methyl bromide.....	(NA)	9,222	12,669	14,303	19,665	20,454	20,033
Methyl parathion.....	(NA)	(NA)	11,794	29,111	33,344	38,163	50,572
Nabam.....	(NA)	(NA)	2,978	2,489	1,361	(NA)	(NA)
Parathion.....	(NA)	5,168	7,434	16,607	11,361	(NA)	(NA)
2,4,5-T acid.....	(NA)	2,925	6,387	11,601	14,552	17,530	4,999
Zineb.....	(NA)	(NA)	(NA)	5,075	3,055	3,081	(NA)
Other organic pesticides.....	120,903	247,827	304,028	472,692	663,261	770,594	749,348
<b>Exports:</b>							
Fungicides.....	(NA)	(NA)	(NA)	32,993	38,488	37,629	36,248
Herbicides.....	(NA)	(NA)	(NA)	40,131	61,936	72,865	69,482
DDT.....	(NA)	(NA)	(NA)	90,414	81,828	109,148	82,077
Other polychlor insecticides.....	(NA)	(NA)	(NA)	38,780	71,722	76,216	44,896
Organophosphorus insecticides.....	(NA)	(NA)	(NA)	31,271	77,993	63,819	64,895
Other agricultural insecticides.....	(NA)	(NA)	(NA)	49,813	43,941	68,647	53,820
Fumigants.....	(NA)	(NA)	(NA)	9,063	16,038	24,106	37,274

NA Not available. <sup>1</sup> Includes the chlorinated compounds aldrin, chlordane, dieldrin, endrin, heptachlor, and toxaphene, and beginning 1965, terpene polychlorinates.

Source: Dept. of Agriculture, Agricultural Stabilization and Conservation Service. In annual report, *Agricultural Statistics*.

## No. 939. COMMERCIAL FERTILIZERS CONSUMED: 1950 TO 1969

[For years beginning July 1. Includes Puerto Rico. Includes fertilizers distributed by Government agencies. See *Historical Statistics, Colonial Times to 1867*, series K 160, for related but not comparable data]

ITEM	1950	1955	1960	1965	1967	1968	1969 <sup>1</sup>
All fertilizers <sup>2</sup> ..... 1,000 tons..	20,345	21,404	24,374	33,071	37,126	37,610	38,078
Percent:							
Nitrogen.....	6.1	9.0	12.4	16.1	18.3	18.5	19.3
Phosphoric oxide.....	10.4	10.5	10.9	11.8	12.0	12.4	12.1
Potash.....	6.8	8.8	8.9	9.7	10.2	10.3	10.5
Mixed fertilizers..... 1,000 tons..	13,978	14,776	15,735	19,650	21,294	21,222	20,778
Percent:							
Nitrogen.....	4.2	5.4	6.8	8.1	8.8	8.9	9.1
Phosphoric oxide.....	11.0	12.1	13.2	15.8	16.8	17.5	17.7
Potash.....	9.0	11.2	12.0	12.6	12.7	12.5	12.6
Other fertilizers..... 1,000 tons..	646	790	1,194	1,461	1,617	1,334	1,295

<sup>1</sup> Preliminary. <sup>2</sup> Products containing primary nutrients.

Source: Dept. of Agriculture, Statistical Reporting Service. In annual report, *Agricultural Statistics*.

## No. 940. FARM MACHINERY AND EQUIPMENT: 1950 TO 1970

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1867*, series K 150-158]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970 (Prel.)
Value of farm implements and machinery <sup>1</sup> mil. dol..	12,166	18,595	22,344	25,522	28,017	31,366	33,069	34,299
Number on farms, Jan. 1:								
Tractors <sup>2</sup> ..... 1,000..	3,394	4,345	4,685	4,783	4,815	4,820	4,810	4,790
Horsepower..... mil..	93	126	154	175	189	197	203	208
Motor trucks..... 1,000..	2,207	2,675	2,825	3,023	3,100	3,130	3,160	3,185
Automobiles..... 1,000..	4,100	4,140	3,629	3,587	(NA)	(NA)	(NA)	(NA)
Grain combines..... 1,000..	714	980	1,042	910	880	870	860	850
Corn pickers <sup>3</sup> ..... 1,000..	456	688	792	690	655	640	630	620
Pickup balers..... 1,000..	196	448	680	751	775	785	790	785
Field forage harvesters..... 1,000..	81	202	290	316	322	325	327	331
Farms with milking machines..... 1,000..	636	712	666	500	(NA)	(NA)	(NA)	(NA)
Farmers' expenditures:								
Motor vehicles <sup>4</sup> ..... mil. dol..	1,734	1,482	1,227	2,121	2,395	2,440	2,392	2,418
Machinery and equipment..... mil. dol..	1,418	1,278	1,486	2,097	2,799	2,315	2,409	2,601

NA Not available. <sup>1</sup> Inventory valuations at beginning of year. Includes family automobiles.

<sup>2</sup> Excludes garden tractors. <sup>3</sup> Includes picker-shellers. <sup>4</sup> For farm business use.

Source: Dept. of Agriculture, Economic Research Service; annual report, *The Balance Sheet of the Farming Sector* and monthly report, *Farm Income Situation*, July issue. Also in *Agricultural Statistics*.



## No. 941. BALANCE SHEET OF THE FARMING SECTOR: 1940 TO 1971

(In billions of dollars. As of January 1. Excludes Alaska and Hawaii)

ITEM	1940	1950	1955	1960	1965	1968	1969	1970	1971 (prel.)
<b>Assets</b> .....	52.9	132.5	165.1	203.1	238.5	283.4	299.1	311.4	317.2
Physical assets:									
Real estate.....	33.6	75.3	98.2	130.2	160.9	193.1	202.6	208.9	212.4
Non-real-estate:									
Livestock <sup>1</sup> .....	5.1	12.9	11.2	15.2	14.5	18.8	20.2	23.5	80.4
Machinery and motor vehicles.....	3.1	12.2	18.6	22.2	25.5	31.1	33.1	34.3	
Crops stored on and off farms <sup>2</sup> .....	2.7	7.6	9.6	7.7	9.2	9.6	10.6	10.8	
Household furnishings and equipment.....	4.2	8.6	10.0	9.6	8.6	8.7	9.6	10.1	
Financial assets:									
Deposits and currency.....	3.2	9.1	9.4	9.2	9.6	10.9	11.5	11.9	24.4
United States savings bonds.....	.2	4.7	5.0	4.7	4.2	3.8	3.7	3.7	
Investments in cooperatives.....	.8	2.1	3.1	4.3	6.0	7.4	7.8	8.2	
<b>Claims</b> .....	52.9	132.5	165.1	203.1	238.5	283.4	299.1	311.4	317.2
<b>Liabilities</b> .....	10.0	12.4	17.6	24.8	37.5	50.4	54.6	58.1	60.4
Real estate debt.....	6.6	5.6	8.2	12.1	18.9	25.5	27.1	28.4	29.2
Non-real-estate debt to:									
Commodity Credit Corporation <sup>3</sup> .....	.4	1.7	2.2	1.2	1.5	1.4	2.7	2.7	1.8
Other reporting institutions <sup>4</sup> .....	1.5	2.8	4.0	6.7	10.0	13.7	14.5	15.8	29.4
Nonreporting creditors <sup>5</sup> .....	1.5	2.3	3.2	4.8	7.1	9.8	10.3	11.2	
Proprietors' equities.....	42.9	120.1	147.5	178.3	201.0	233.0	244.5	253.3	256.8

<sup>1</sup> Beginning 1965, excludes horses and mules. <sup>2</sup> Includes all crops held on farms and crops held off farms by farmers as security for CCC loans. The latter totaled \$678 million on Jan. 1, 1971.

<sup>3</sup> Nonrecourse CCC loans secured by crops owned by farmers are included as assets in this balance sheet.

<sup>4</sup> Loans of all operating banks, production credit associations, and Farmers Home Administration, and discounts of Federal intermediate credit banks for agricultural credit corporations and livestock loan companies.

<sup>5</sup> Loans and credits extended by dealers, merchants, finance companies, individuals, and others. Estimates based on fragmentary data.

Source: Dept. of Agriculture, Economic Research Service; *The Balance Sheet of the Farming Sector*.

## No. 942. FARM REAL ESTATE—INDEXES OF AVERAGE VALUE OF LAND AND BUILDINGS PER ACRE, BY STATES: 1950 TO 1971

(1967=100, As of March 1)

STATE	1950	1960	1965	1970 <sup>1</sup>	1971 <sup>1</sup>	STATE	1950	1960	1965	1970 <sup>1</sup>	1971 <sup>1</sup>
<b>United States<sup>2</sup></b> .....	43	73	87	117	121	<b>South Atlantic—Con.</b>					
<b>New England:</b>						Virginia.....	30	68	85	120	131
Maine.....	50	70	91	123	133	West Virginia.....	51	77	94	123	128
New Hampshire.....	49	70	88	127	135	North Carolina.....	40	66	80	113	122
Vermont.....	48	65	87	133	141	South Carolina.....	38	64	87	123	135
Massachusetts.....	49	72	88	125	132	Georgia.....	27	55	81	140	155
Rhode Island.....	44	68	86	125	132	Florida.....	28	74	100	121	128
Connecticut.....	46	72	86	121	132	<b>East South Central:</b>					
<b>Middle Atlantic:</b>						Kentucky.....	41	61	90	115	121
New York.....	52	74	90	125	135	Tennessee.....	43	65	87	122	129
New Jersey.....	38	71	89	136	145	Alabama.....	33	57	84	123	137
Pennsylvania.....	39	69	88	134	144	Mississippi.....	31	56	81	130	138
<b>East North Central:</b>						<b>West South Central:</b>					
Ohio.....	40	71	87	116	121	Arkansas.....	30	49	86	128	129
Indiana.....	38	69	80	104	108	Louisiana.....	28	53	79	121	129
Illinois.....	42	71	83	108	107	Oklahoma.....	38	62	87	122	127
Michigan.....	42	72	86	119	124	Texas.....	55	96	92	119	123
Wisconsin.....	54	78	86	126	138	<b>Mountain:</b>					
<b>West North Central:</b>						Montana.....	35	65	88	115	116
Minnesota.....	47	78	89	121	123	Idaho.....	47	77	90	113	118
Iowa.....	49	74	80	115	116	Wyoming.....	43	63	90	116	120
Missouri.....	38	62	82	123	129	Colorado.....	49	68	90	109	113
North Dakota.....	41	71	87	118	121	New Mexico.....	46	68	97	106	109
South Dakota.....	46	71	86	108	111	Arizona.....	42	75	91	101	90
Nebraska.....	59	91	86	115	117	Utah.....	50	75	92	108	112
Kansas.....	47	70	87	109	106	Nevada.....	44	77	91	107	111
<b>South Atlantic:</b>						<b>Pacific:</b>					
Delaware.....	32	59	84	120	134	Washington.....	48	85	88	119	118
Maryland.....	29	54	84	129	140	Oregon.....	48	77	89	117	120
						California.....	34	66	94	109	108

<sup>1</sup> Includes improvements. <sup>2</sup> Excludes Alaska and Hawaii.

Source: Dept. of Agriculture, Economic Research Service; *Farm Real Estate Market Developments*.

[In billions of dollars. Prior to 1960, excludes Alaska and Hawaii. For definition of national income and current and constant dollars, see text, pp. 303-305]

Source: Dept. of Commerce, Office of Business Economics; *The National Income and Product Accounts of the United States, 1960-1966* and *Survey of Current Business*, July 1971.

[In millions of dollars, except as indicated. Prior to 1960, excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1967*, series K 81, K 122-128, and K 159]

<sup>1</sup> Includes bulbs, plants, and trees. <sup>2</sup> Includes livestock, feed, and other farm supplies, including services and medicines, net insurance premiums (crop, fire, wind, and hail), and miscellaneous supplies. <sup>3</sup> Includes other consumption of farm capital.

Source: Dept. of Agriculture, Economic Research Service; quarterly reports, *The Farm Income Situation*.

## No. 945. FARM INCOME—CASH RECEIPTS FROM FARM MARKETINGS: 1950 TO 1970

[In millions of dollars, except percent. Prior to 1960, excludes Alaska and Hawaii. See headnote, table 946]

ITEM	TOTAL MARKET SALES							PERCENT DISTRIBUTION		
	1950	1955	1960	1965	1968	1969	1970 (prel.)	1960	1965	1970 (prel.)
<b>Farm marketings.....</b>	<b>28,461</b>	<b>29,490</b>	<b>34,154</b>	<b>39,350</b>	<b>44,218</b>	<b>47,229</b>	<b>48,678</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
All crops.....	12,356	13,523	15,208	17,392	18,734	18,790	19,589	44.5	44.2	40.2
Cotton (lint and seed).....	2,434	2,580	2,340	2,330	1,311	1,059	1,362	6.8	5.9	2.8
Tobacco.....	1,061	1,225	1,154	1,186	1,173	1,296	1,406	3.4	3.0	2.9
Food grains.....	1,941	1,990	2,460	2,041	2,121	2,057	1,997	7.2	5.2	4.1
Oilbearing crops.....	935	1,131	1,364	2,173	2,803	2,910	3,169	4.0	5.5	6.5
Feed crops.....	2,143	2,555	3,025	3,660	4,322	4,379	4,614	8.0	9.3	9.5
Vegetables <sup>1</sup> .....	1,436	1,683	1,941	2,580	2,836	2,781	2,814	5.7	6.6	5.8
Fruits and tree nuts <sup>1</sup> .....	1,188	1,276	1,514	1,667	2,073	2,206	2,062	4.4	4.2	4.2
Other <sup>2</sup> .....	1,218	1,083	1,410	1,746	2,036	2,102	2,165	4.1	4.4	4.4
All livestock and products.....	16,105	15,967	18,946	21,958	25,484	28,439	29,089	55.5	55.8	59.8
Hogs.....	3,214	2,694	2,873	3,693	3,807	4,667	4,547	8.4	9.4	9.3
Cattle and calves.....	5,680	5,245	7,368	8,942	11,241	12,522	13,117	21.7	22.7	27.0
Sheep and lambs.....	387	316	327	329	315	332	312	1.0	0.8	0.6
Wool.....	130	91	108	95	72	70	61	0.3	0.2	0.1
Dairy products.....	3,719	4,217	4,753	5,037	5,955	6,172	6,470	13.9	12.8	13.3
Eggs.....	1,579	1,777	1,738	1,783	1,921	2,266	2,164	5.1	4.5	4.5
Broilers and farm chickens.....	946	1,070	1,127	1,304	1,417	1,634	1,578	3.3	3.3	3.3
Turkeys and other poultry <sup>3</sup> .....	314	377	427	489	490	533	592	1.3	1.2	1.2
Other <sup>4</sup> .....	136	180	195	281	266	253	248	0.6	0.7	0.5

<sup>1</sup> Melons included with vegetables.<sup>2</sup> Sugar crops, greenhouse and nursery products, forest products, legume and grass seeds, hops, mint, broom-corn, popcorn, hemp fiber and seed, and flax fiber.<sup>3</sup> Ducks, geese, guineas, pigeons, quail, pheasants, and turkey hatching eggs.<sup>4</sup> Horses and mules (1950 and 1955), mohair, honey, beeswax, bees, goats, rabbits, and fur animals.Source: Dept. of Agriculture, Economic Research Service; *The Farm Income Situation*.

## No. 946. FARM MARKETINGS, BY PRICE SUPPORT STATUS: 1950 TO 1970

[In millions of dollars, except percent. Prior to 1960, excludes Alaska and Hawaii. Farm marketings represent gross receipts from commercial market sales as well as net Commodity Credit Corporation loans]

CROPS	TOTAL MARKET SALES					PERCENT DISTRIBUTION				
	1950	1955	1960	1965	1970	1950	1955	1960	1965	1970
<b>Total.....</b>	<b>28,461</b>	<b>29,490</b>	<b>34,154</b>	<b>39,350</b>	<b>48,678</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Under price support.....</b>	<b>12,428</b>	<b>13,788</b>	<b>15,323</b>	<b>16,557</b>	<b>19,265</b>	<b>43.7</b>	<b>46.8</b>	<b>44.9</b>	<b>42.1</b>	<b>39.6</b>
Mandatory support.....	11,299	12,461	13,776	14,263	16,082	39.7	42.3	40.3	36.3	33.0
Basic commodities.....	6,563	7,194	7,696	7,693	7,728	23.0	24.4	22.5	19.6	15.9
Cotton.....	2,143	2,324	2,116	2,065	1,135	7.5	7.9	6.2	5.2	2.3
Wheat.....	1,732	1,698	2,195	1,637	1,576	6.1	5.8	6.4	4.2	3.2
Corn.....	1,232	1,507	1,817	2,157	2,893	4.3	5.1	5.3	5.5	6.0
Tobacco.....	1,061	1,225	1,154	1,186	1,406	3.7	4.1	3.4	3.0	2.9
Rice.....	189	270	244	377	391	0.7	0.9	0.7	1.0	0.8
Peanuts.....	206	170	170	271	327	0.7	0.6	0.5	0.7	0.7
Nonbasic commodities <sup>1</sup> .....	4,736	5,267	6,080	6,570	8,334	16.7	17.9	17.8	16.7	17.1
Dairy products.....	3,719	4,217	4,753	5,037	6,470	13.1	14.3	13.9	12.8	13.3
Oats.....	229	246	199	194	195	0.8	0.8	0.6	0.5	0.4
Barley.....	194	238	247	305	262	0.7	0.8	0.7	0.8	0.5
Sorghum grain.....	209	211	372	496	637	0.7	0.7	1.1	1.3	1.3
Sugar beets.....	140	136	190	250	387	0.5	0.5	0.6	0.6	0.8
Others <sup>2</sup> .....	245	219	319	288	383	0.9	0.8	0.9	0.7	0.8
<b>Nonmandatory support<sup>3</sup>.....</b>	<b>1,129</b>	<b>1,327</b>	<b>1,547</b>	<b>2,294</b>	<b>3,203</b>	<b>4.0</b>	<b>4.5</b>	<b>4.5</b>	<b>5.8</b>	<b>6.6</b>
Soybeans.....	596	832	1,125	1,812	2,769	2.1	2.8	3.3	4.6	5.7
Cottonseed.....	290	244	225	265	227	1.0	0.8	0.7	0.7	0.5
Flaxseed.....	130	127	67	86	72	0.5	0.5	0.2	0.2	0.1
Dry beans.....	113	124	130	131	135	0.4	0.4	0.4	0.3	0.3
<b>Not under price support.....</b>	<b>16,033</b>	<b>15,702</b>	<b>18,831</b>	<b>22,793</b>	<b>29,413</b>	<b>56.3</b>	<b>53.2</b>	<b>55.1</b>	<b>57.9</b>	<b>60.4</b>

<sup>1</sup> Under price support, support was nonmandatory for oats, barley, sorghum grain, and rye.<sup>2</sup> Market support was nonmandatory for soybeans, cottonseed, flaxseed, and sugar beets.Source: Dept. of Agriculture, Economic Research Service; *The Farm Income Situation*.

# No. 947. FARM INCOME—CASH RECEIPTS, 1969 AND 1970, AND PRINCIPAL COMMODITIES IN ORDER OF CASH RECEIPTS, 1970, BY STATES

[In millions of dollars. Cattle include calves; sheep include lambs; and greenhouse includes nursery]

STATE	1969	1970 (prel.)				Principal commodities in order of cash receipts, 1970
		Farm marketings			Government payments	
		Total	Crops	Live-stock and products		
U.S.	47,229.2	48,678.3	19,589.4	29,088.9	3,720.5	Cattle, dairy prod., hogs, corn, soybeans.
N.E.	801.6	836.8	275.1	561.7	4.9	
Maine	239.5	255.7	94.7	161.0	1.6	Potatoes, eggs, broilers, dairy prod.
N.H.	57.1	55.7	12.7	43.0	.5	Dairy prod., eggs, cattle, greenhouse.
Vt.	151.8	162.7	14.5	148.2	1.3	Dairy prod., cattle, eggs, forest prod.
Mass.	166.0	173.5	80.8	92.7	.6	Dairy prod., greenhouse, eggs, cranberries.
R.I.	21.0	21.5	10.3	11.3	.1	Dairy prod., greenhouse, potatoes, eggs.
Conn.	166.1	167.6	62.0	105.5	.8	Dairy prod., eggs, tobacco, greenhouse.
M.A.	2,319.5	2,403.8	711.4	1,692.4	53.9	
N.Y.	1,080.8	1,112.9	300.7	812.2	23.4	Dairy prod., cattle, eggs, greenhouse.
N.J.	249.6	247.0	148.5	98.5	4.6	Dairy prod., greenhouse, eggs, tomatoes.
Pa.	989.1	1,044.0	262.3	781.8	25.9	Dairy prod., cattle, eggs, greenhouse.
E.N.C.	7,832.0	8,084.2	3,271.1	4,813.2	525.0	
Ohio	1,253.8	1,333.6	555.6	778.1	97.6	Dairy prod., cattle, hogs, soybeans.
Ind.	1,487.1	1,510.3	698.4	811.9	123.3	Hogs, corn, soybeans, cattle.
Ill.	2,703.0	2,742.6	1,386.5	1,356.1	182.6	Corn, hogs, cattle, soybeans.
Mich.	863.3	900.2	411.4	488.9	70.0	Dairy prod., cattle, corn, hogs.
Wis.	1,524.8	1,597.4	219.2	1,378.2	51.6	Dairy prod., cattle, hogs, corn.
W.N.C.	12,572.8	12,819.1	3,831.6	8,987.4	1,211.0	
Minn.	1,967.4	2,016.3	639.5	1,376.8	158.8	Cattle, dairy prod., hogs, corn.
Iowa	3,788.0	3,882.3	1,038.1	2,844.2	239.0	Cattle, hogs, corn, soybeans.
Mo.	1,446.0	1,479.2	425.7	1,053.6	149.7	Cattle, hogs, soybeans, dairy prod.
N. Dak.	744.3	693.1	416.8	276.3	157.5	Wheat, cattle, barley, dairy prod.
S. Dak.	986.0	1,015.9	197.0	818.9	87.5	Cattle, hogs, dairy prod., wheat.
Nebr.	1,933.3	1,987.2	562.6	1,424.6	188.8	Cattle, corn, hogs, wheat.
Kans.	1,717.8	1,745.1	552.0	1,193.1	229.7	Cattle, wheat, hogs, sorghum grain.
S.A.	5,520.0	5,620.0	2,948.5	2,671.4	258.3	
Del.	150.9	147.7	48.2	99.4	2.0	Broilers, corn, soybeans, dairy prod.
Md.	389.3	393.4	124.5	268.9	8.1	Broilers, dairy prod., corn, cattle.
Va.	576.7	603.1	261.5	341.6	18.5	Dairy prod., cattle, tobacco, eggs.
W. Va.	105.8	109.0	27.3	81.7	3.4	Cattle, dairy prod., apples, eggs.
N.C.	1,406.2	1,522.0	915.8	606.3	67.4	Tobacco, broilers, eggs, hogs.
S.C.	400.1	441.5	268.1	173.4	55.8	Tobacco, soybeans, eggs, cattle.
Ga.	1,147.9	1,147.9	436.5	711.4	84.4	Broilers, eggs, cattle, peanuts.
Fla.	1,343.1	1,255.4	866.6	388.8	18.6	Oranges, cattle, dairy prod., grapefruit.
E.S.C.	3,089.4	3,273.0	1,298.0	1,975.0	350.6	
Ky.	886.1	927.5	419.4	508.1	48.5	Tobacco, cattle, dairy prod., hogs.
Tenn.	673.4	705.3	267.7	437.6	73.8	Cattle, dairy prod., tobacco, soybeans.
Ala.	722.6	736.3	208.9	527.3	84.0	Broilers, cattle, eggs, cotton.
Miss.	807.2	903.9	402.0	502.0	144.3	Cotton, cattle, soybeans, broilers.
W.S.C.	5,455.6	5,745.5	2,382.6	3,362.8	781.5	
Ark.	1,038.0	1,057.4	510.3	541.0	89.7	Soybeans, broilers, cotton, cattle.
La.	672.2	640.2	370.5	269.7	56.5	
Okla.	939.3	947.7	234.2	713.5	115.7	
Tex.	2,905.3	3,100.1	1,261.6	1,838.6	519.6	
Mt.	3,743.9	3,848.3	1,260.8	2,587.5	310.1	
Mont.	534.2	557.5	192.5	365.0	79.6	Cattle, wheat, barley, dairy prod.
Idaho	631.3	638.9	347.8	291.1	46.4	Cattle, potatoes, dairy prod., wheat.
Wyo.	224.6	226.5	35.0	191.5	13.4	Cattle, sheep, sugar beets, dairy prod.
Colo.	1,015.8	1,071.1	254.6	816.5	64.1	Cattle, wheat, dairy prod., sugar beets.
N. Mex.	390.3	393.0	89.0	304.9	41.7	Cattle, dairy prod., cotton, hay.
Ariz.	682.0	663.0	284.7	378.3	51.9	Cattle, cotton, dairy prod., lettuce.
Utah	293.5	216.9	42.4	174.5	11.2	Cattle, dairy prod., turkeys, sheep.
Nev.	76.2	80.5	14.7	65.8	1.8	Cattle, dairy prod., hay, sheep.
Pac.	5,894.3	6,047.6	3,610.2	2,437.4	225.2	
Wash.	774.6	787.7	494.3	293.4	57.5	Wheat, dairy prod., cattle, apples.
Oreg.	546.2	560.1	293.7	266.4	24.1	Cattle, dairy prod., wheat, greenhouse.
Calif.	4,371.3	4,489.1	2,657.2	1,831.8	131.5	Cattle, dairy prod., eggs, greenhouse.
Alaska	3.8	4.2	1.1	3.1	.1	Dairy prod., potatoes, cattle, eggs.
Hawaii	198.6	206.6	163.9	42.7	11.9	Sugarcane, pineapples, cattle, dairy prod.

Source: Dept. of Agriculture, Economic Research Service; *The Farm Income Situation*.

# NO. 948. FARM INCOME AND PRODUCTION EXPENSES, BY VALUE OF SALES CLASSES: 1960 AND 1970

VALUE OF SALES AND YEAR	REALIZED GROSS FARM INCOME		FARM PRODUCTION EXPENSES		REALIZED NET FARM INCOME		PER FARM AVERAGES (dollars)		
	Total (mil. dol.)	Percent of total	Total (mil. dol.)	Percent of total	Total (mil. dol.)	Percent of total	Realized gross	Pro- duction expenses	Farm operator realized net
1960, all farms.....	38,088	100.0	26,352	100.0	11,736	100.0	9,614	6,652	2,962
1970, all farms.....	56,580	100.0	40,867	100.0	15,713	100.0	13,350	13,976	5,374
Farms with sales of— Less than \$2,500:									
1960.....	3,290	8.7	1,728	6.6	1,571	13.4	1,785	935	850
1970.....	2,543	4.5	1,289	3.2	1,254	8.0	2,148	1,089	1,059
\$2,500-\$4,999:									
1960.....	2,888	7.6	1,678	6.4	1,210	10.3	4,681	2,720	1,961
1970.....	1,352	2.4	819	2.0	533	3.4	5,199	3,150	2,049
\$5,000-\$9,999:									
1960.....	5,652	14.8	3,471	13.2	2,181	18.6	8,564	5,259	3,305
1970.....	3,450	6.1	2,158	5.3	1,292	8.2	9,324	5,832	3,492
\$10,000-\$19,999:									
1960.....	7,887	20.6	5,199	19.7	2,688	22.7	15,829	10,461	5,368
1970.....	8,952	15.8	5,767	14.1	3,185	20.3	17,450	11,242	6,208
\$20,000-\$39,999:									
1960.....	6,766	17.8	4,802	18.2	1,964	16.7	29,806	21,154	8,652
1970.....	12,004	21.2	8,278	20.2	3,726	23.7	32,096	22,134	9,962
\$40,000 and over:									
1960.....	11,616	30.5	9,474	35.9	2,142	18.3	102,798	83,841	18,955
1970.....	28,270	50.0	22,556	55.2	5,723	36.4	126,812	101,148	25,664

Source: Dept. of Agriculture, Economic Research Service; *The Farm Income Situation*.

## NO. 949. COMMODITY CREDIT CORPORATION—SUMMARY: 1955 TO 1970

[Money figures in millions of dollars. As of June 30 or for years ending June 30. The Commodity Credit Corporation (CCC), established in 1933 by Congress, is the financial organization through which farm price support is carried out by loans, purchases, and other operations]

ITEM	1955	1960	1964	1965	1966	1967	1968	1969	1970
Loans made, value.....	2,377	1,507	2,776	2,144	1,971	1,411	2,062	2,984	2,388
Loans outstanding, total value <sup>1</sup> .....	2,137	1,347	2,815	2,534	2,231	1,536	2,345	3,493	2,952
Wheat.....	32	163	115	136	111	96	298	583	576
Sorghum grain.....	1	14	32	36	39	30	57	82	52
Corn.....	470	646	759	616	461	296	606	666	632
Cotton.....	1,129	9	1,012	775	731	153	61	324	170
Cost of acquisitions <sup>1 2</sup> .....	2,985	4,020	2,305	2,005	1,540	1,351	509	939	1,518
Wheat.....	1,075	371	212	169	55	24	9	96	217
Sorghum grain.....	160	96	129	77	91	7	1	4	23
Corn.....	586	361	541	140	191	111	3	179	49
Cotton.....	271	2,027	760	952	767	742	132	7	304
Commodities owned, value <sup>1 2</sup> .....	4,572	6,021	4,338	3,892	3,113	1,858	913	1,244	1,858
Wheat.....	2,297	2,452	1,683	1,297	680	195	149	225	406
Sorghum grain.....	133	646	709	648	467	207	204	206	173
Corn.....	934	1,700	906	595	344	168	162	306	293
Cotton.....	266	880	739	1,123	1,497	1,051	101	27	225
Commodities owned, quantity:									
Wheat.....mil. bu.....	976	1,195	829	646	340	124	102	163	301
Sorghum grain.....mil. bu.....	92	570	638	564	420	194	192	193	183
Corn.....mil. bu.....	581	1,158	735	483	280	141	138	270	263
Cotton.....1,000 bales.....	1,662	5,061	4,440	6,739	9,412	6,838	659	121	1,978
Cost of sales and donations <sup>2</sup> .....	1,860	3,261	2,734	2,487	2,342	2,621	1,565	610	906
Storage and handling expense <sup>2</sup> .....	235	476	365	311	235	151	75	88	145
Resale loan storage expense <sup>2</sup> .....	20	53	79	82	68	44	50	123	144

<sup>1</sup> Includes amounts for commodities not shown separately.

<sup>2</sup> Price support commodities only. Data comparable for all years.

Source: Dept. of Agriculture, Agricultural Stabilization and Conservation Service; quarterly report, *Commodity Credit Corporation Report of Financial Condition and Operations*.

# No. 950. FARM EXPENDITURES—SELECTED ITEMS, 1949 TO 1964, AND BY REGIONS, 1964

[Expenditures in millions of dollars, except as indicated. Prior to 1959, excludes Alaska and Hawaii. For 1964 data by States, see 1970 *Statistical Abstract*, p. 598. For composition of regions, see fig. 1, p. xii]

ITEM	1949	1954	1959	U.S.	1964		
					Region		
					North	South	West
Farms reporting.....1,000.....	4,782	4,608	3,671	3,155	1,478	1,371	305
Percent of all farms.....	88.9	98.2	99.0	99.9	99.9	99.9	99.9
<b>Specified expenditures, total.....</b>	<b>10,121</b>	<b>8,190</b>	<b>14,085</b>	<b>17,877</b>	<b>8,322</b>	<b>5,402</b>	<b>3,853</b>
Average per farm reporting.....dol.	2,116	1,743	3,836	5,671	5,628	3,940	12,624
<b>Livestock and poultry:</b>							
Feed.....	3,024	3,906	4,755	5,512	2,715	1,758	1,030
Purchase.....	2,390	(NA)	3,857	4,177	2,310	912	956
Seeds, bulbs, and plants.....	543	(NA)	492	661	366	197	97
Gasoline and other petroleum fuel and oil <sup>1</sup> .....	1,134	1,366	1,554	1,787	939	563	234
Hired labor (except housework) <sup>2</sup> .....	2,418	2,270	2,621	2,799	857	960	981
Machine hire and contract work.....	612	638	805	870	303	315	252
Fertilizer and fertilizer materials.....	(NA)	(NA)	(NA)	1,772	833	605	244

NA Not available. <sup>1</sup> For farm business. <sup>2</sup> Cash payments for farm labor.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959 and 1964*, Vol. II.

# No. 951. FARM-RETAIL SPREADS FOR FARM-ORIGINATED FOOD PRODUCTS, BY COMMODITY GROUP: 1957 TO 1970

[In dollars, except as indicated. These estimates are for a market basket of domestic food purchased annually per household in 1960-61 by urban wage-earner and workers living alone. Quantities of food valued do not change from year to year. *Times to 1957*, series T 352-355, for 1952 market basket totals for all foods]

COMMODITY GROUP AND VALUE	1957-1959, average	1960	1965	1968	1969	1970 (prel.)
<b>All farm food products,<sup>1</sup> retail cost.....</b>	<b>983</b>	<b>991</b>	<b>1,038</b>	<b>1,118</b>	<b>1,174</b>	<b>1,225</b>
Farm value adjusted for byproducts.....	388	383	408	435	473	480
Farm-retail spread.....	595	608	630	683	696	745
Farmer's share of consumer's dollar.....cents..	39	39	39	39	41	39
<b>Meat products, retail cost.....</b>	<b>285</b>	<b>284</b>	<b>303</b>	<b>325</b>	<b>356</b>	<b>376</b>
Farm value adjusted for byproducts.....	154	148	164	172	201	203
Farm-retail spread.....	131	136	139	153	155	173
Farmer's share of consumer's dollar.....cents..	54	52	54	53	57	54
<b>Dairy products, retail cost.....</b>	<b>173</b>	<b>178</b>	<b>178</b>	<b>202</b>	<b>208</b>	<b>218</b>
Farm value adjusted for byproducts.....	78	79	80	97	101	105
Farm-retail spread.....	95	99	98	105	107	113
Farmer's share of consumer's dollar.....cents..	45	44	45	48	48	48
<b>Poultry and eggs, retail cost.....</b>	<b>93</b>	<b>91</b>	<b>85</b>	<b>86</b>	<b>95</b>	<b>94</b>
Farm value.....	56	55	43	47	55	51
Farm-retail spread.....	37	36	37	39	40	43
Farmer's share of consumer's dollar.....cents..	61	61	57	55	58	54
<b>Bakery and cereal products, retail cost.....</b>	<b>148</b>	<b>152</b>	<b>160</b>	<b>170</b>	<b>174</b>	<b>184</b>
Farm value adjusted for byproducts.....	31	29	33	33	34	36
Farm-retail spread.....	117	123	127	137	140	148
Farmer's share of consumer's dollar.....cents..	21	19	21	19	19	19
<b>Fruits and vegetables, retail cost.....</b>	<b>203</b>	<b>208</b>	<b>228</b>	<b>249</b>	<b>251</b>	<b>259</b>
Farm value.....	50	52	64	68	67	64
Farm-retail spread.....	153	156	164	181	184	195
Farmer's share of consumer's dollar.....cents..	25	25	28	27	27	25
<b>Fats and oils, retail cost.....</b>	<b>38</b>	<b>34</b>	<b>37</b>	<b>38</b>	<b>38</b>	<b>41</b>
Farm value adjusted for byproducts.....	11	10	11	10	10	12
Farm-retail spread.....	27	24	26	28	28	29
Farmer's share of consumer's dollar.....cents..	30	29	31	26	27	30

<sup>1</sup> Includes miscellaneous group not shown separately.

Source: Dept. of Agriculture, Economic Research Service; *Farm-Retail Spreads for Food Products, 1947-64*, ERS-226, April 1965, and *The Marketing and Transportation Situation*, February 1971.

## NO. 952. FARM OUTPUT INDEXES AND ACREAGE OF 59 CROPS: 1940 TO 1970

[Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series K 190-194 and K 254-264, for indexes on a 1947-49 base]

ITEM	1940	1950	1955	1960	1965	1966	1968	1969	1970
INDEXES, 1967=100									
Farm output <sup>1</sup> .....	59	73	81	90	97	96	102	104	103
Per unit of total input.....	65	76	84	96	101	98	100	100	100
Gross production:									
Livestock and products <sup>2</sup> .....	61	75	85	87	95	97	100	101	104
Meat animals.....	60	74	86	86	92	97	102	102	107
Dairy products.....	85	94	100	102	104	101	99	99	99
Poultry and eggs.....	36	57	62	75	90	96	98	101	107
Crops <sup>3</sup> .....	67	76	82	92	98	95	103	104	101
Feed grains.....	53	65	69	88	90	89	95	99	90
Hay and forage.....	75	77	85	90	97	96	100	103	101
Food grains.....	51	64	61	85	87	87	105	96	91
Vegetables.....	74	86	86	91	96	97	103	100	100
Fruits and nuts.....	83	88	88	88	95	96	93	117	111
Sugar crops.....	64	69	63	74	101	100	116	125	123
Cotton.....	170	137	200	193	202	130	148	135	138
Tobacco.....	74	103	111	98	94	96	87	91	96
Oil crops.....	20	42	46	61	90	90	113	116	118
ACREAGE, 59 CROPS (million acres)									
Planted or grown.....	348	353	354	324	304	298	308	299	301
Harvested.....	332	336	332	316	291	288	295	287	289

<sup>1</sup> Farm output consists of the value of livestock production plus the value of crop production less the value of feed and pasture into livestock and products for human use.

<sup>2</sup> Total constant dollar value of all crop production regardless of its final disposition.

Source: Dept. of Agriculture, Economic Research Service; annual report, *Changes in Farm Production and Efficiency*; and Statistical Reporting Service. In annual reports, *Agricultural Statistics* and *Crop Production*.

## NO. 953. FARM PRODUCTIVITY—MAN-HOURS AND INDEXES OF FARM OUTPUT: 1940 TO 1970

[Man-hours in billions; index, 1967=100. Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series K 102-103 and W 48-50, for indexes on a 1947-49 base]

ITEM	1940	1950	1955	1960	1965	1966	1968	1969 (prel.)	1970 (prel.)
Persons supplied per farm worker <sup>1</sup> .....	10.7	15.5	19.5	25.8	37.0	39.6	43.4	45.1	47.1
At home.....	10.3	13.8	17.3	22.3	30.8	33.6	37.9	39.0	39.9
Abroad.....	0.4	1.7	2.2	3.5	6.2	6.0	5.5	6.1	7.2
Man-hours of labor required on farms <sup>2</sup> .....	20.5	15.1	12.8	9.8	7.8	7.4	7.0	6.9	6.7
All productive livestock.....	6.1	5.5	4.9	3.8	3.0	2.8	2.6	2.5	2.5
All crops.....	10.4	6.9	6.0	4.6	3.7	3.5	3.4	3.4	3.3
Farm maintenance <sup>3</sup> .....	4.0	2.7	1.9	1.4	1.1	1.1	1.0	1.0	0.9
Index of farm output per man-hour <sup>4</sup> .....	21	35	46	67	91	94	106	110	112
All livestock and products.....	27	37	47	62	87	93	105	112	114
Meat animals.....	50	55	62	71	90	96	105	110	109
Milk cows.....	25	36	43	61	87	93	106	115	114
Poultry.....	15	21	32	55	87	95	105	113	130
All crops.....	23	39	48	71	92	95	106	107	109
Feed grains.....	10	23	31	58	93	93	102	109	98
Hay and forage.....	30	55	63	85	96	99	102	104	116
Food grains.....	20	40	40	92	101	102	108	112	117
Vegetables.....	40	57	70	89	99	99	101	102	110
Fruits and nuts.....	51	64	75	75	95	98	98	112	114
Sugar crops.....	27	38	54	78	89	92	113	123	122
Cotton.....	17	26	39	66	101	102	130	119	119
Tobacco.....	56	66	75	86	95	97	98	98	109
Oil crops.....	18	48	60	84	100	101	111	114	115
Cropland used <sup>5</sup> .....	107	110	110	104	98	96	99	97	98
Crop production per acre.....	63	69	75	88	100	99	104	107	103

<sup>1</sup> Refers to persons supplied farm products; includes farmworkers.

<sup>2</sup> Man-equivalent hours; represents overhead, and time used by average adult males in performing farm operations on crops and livestock. <sup>3</sup> Includes work on horses and mules.

<sup>4</sup> Index of farm output (production) divided by index of man-hours used.

<sup>5</sup> Harvested acreages plus acreages of crop failure and summer fallow.

Source: Dept. of Agriculture, Economic Research Service; annual report, *Changes in Farm Production and Efficiency*. Also in annual report, *Agricultural Statistics*.

## No. 954. SELECTED FARM INDEXES OF INPUTS: 1950 TO 1970

[1967=100]

ITEM	1950	1955	1960	1965	1966	1968	1969	1970 (prel.)
<b>Total</b> .....	29	93	92	95	97	101	102	103
Farm labor.....	208	176	135	107	102	96	94	92
Farm real estate <sup>1</sup> .....	91	93	94	99	100	100	101	99
Mechanical power and machinery.....	75	87	91	92	96	100	100	103
Fertilizer and liming materials.....	33	44	54	79	89	105	110	113
Feed, seed, and livestock purchases <sup>2</sup> .....	50	60	76	88	94	99	103	100
Miscellaneous.....	66	73	83	94	96	102	103	105

<sup>1</sup> Includes service buildings and improvements on land.<sup>2</sup> Nonfarm portion of feed, seed, and livestock purchases.Source: Dept. of Agriculture, Economic Research Service; annual report, *Changes in Farm Production and Efficiency*. Also in *Economic Report of the President*, February 1971.

## No. 955. FARM LABOR—MAN-HOURS PER UNIT OF PRODUCTION, SELECTED CROPS AND LIVESTOCK: 1935-39 TO 1965-69

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 87, K 92, and K 97]

ITEM	1935-39	1945-49	1955-59	1965-69 <sup>1</sup>	ITEM	1935-39	1945-49	1955-59	1965-69 <sup>1</sup>
<b>CROPS</b>					<b>LIVESTOCK</b>				
Corn for grain:					Milk cows:				
Man-hours per acre <sup>2</sup> .....	28.1	10.2	9.9	5.8	Man-hours per cow.....	148	129	109	78
Yield..... bushels.....	26.1	36.1	48.7	77.4	Milk per cow.....lb.....	4,401	4,992	6,307	8,732
Man-hours per 100 bushels.....	108	53	20	7	Man-hours per cwt. of milk.....	3.4	2.6	1.7	0.9
Wheat:					Cattle other than milk cows:				
Man-hours per acre <sup>2</sup> .....	8.8	5.7	3.8	2.9	Man-hours per cwt. of beef produced <sup>4</sup> .....	4.2	4.0	3.2	2.1
Yield..... bushels.....	13.2	16.9	22.3	27.5	Hogs: Man-hours per cwt. produced <sup>4</sup> .....	3.2	3.0	2.4	1.4
Man-hours per 100 bushels.....	67	34	17	11	Chickens (laying flocks and eggs):				
Hay:					Man-hours per 100 layers.....	221	240	175	98
Man-hours per acre <sup>2</sup> .....	11.3	8.4	6.0	5.7	Rate of lay.....	129	161	200	219
Yield..... short tons.....	1.24	1.35	1.61	1.94	Man-hours per 100 eggs produced.....	1.7	1.5	0.9	0.4
Man-hours per short ton.....	9.1	6.2	3.7	3.0	Chickens (farm raised):				
Potatoes:					Man-hours per 100 birds.....	30	29	23	14
Man-hours per acre <sup>2</sup> .....	69.7	68.5	53.1	45.1	Man-hours per cwt. produced <sup>3</sup> .....	9.0	7.7	6.7	3.6
Yield..... cwt.....	70.3	117.8	178.1	212.3	Chickens (broilers):				
Man-hours per short ton.....	20	12	6	4	Man-hours per 100 birds.....	25	16	4	2
Cotton:					Man-hours per cwt. produced <sup>3</sup> .....	8.5	5.1	1.3	0.5
Man-hours per acre <sup>2</sup> .....	99	83	66	30	Turkeys: Man-hours per cwt. produced <sup>3</sup> .....	23.7	13.1	4.4	1.3
Yield..... pounds.....	228	273	428	485					
Man-hours per bale.....	209	146	74	30					
Tobacco:									
Man-hours per acre <sup>3</sup> .....	415	460	475	480					
Yield..... pounds.....	886	1,176	1,641	1,957					
Man-hours per 100 pounds.....	47	39	31	25					

<sup>1</sup> Preliminary.<sup>2</sup> Man-hours per acre harvested, including preharvest work on acreages abandoned, grazed, and turned under.<sup>3</sup> Per acre planted and harvested.<sup>4</sup> Production includes beef produced as a byproduct of the milk cow enterprise.<sup>5</sup> Liveweight production.Source: Dept. of Agriculture, Economic Research Service. In annual report, *Agricultural Statistics*.



## No. 956. SUPPLY AND UTILIZATION OF FARM COMMODITIES: 1947 TO 1970

[Percent distribution. Prior to 1960, excludes Alaska and Hawaii, except imports and exports include Alaska, Hawaii, and Puerto Rico for all years. "Net" means that commodities used for feed and seed are excluded to avoid double counting. See *Historical Statistics, Colonial Times to 1967*, series K 104-115, for related data]

ITEM	1947-1949	1957-1959	1950	1955	1960	1965	1967	1968	1969	1970 (prel.)
<b>Supply</b> .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Net production <sup>1</sup> .....	91.4	90.2	87.3	93.0	91.1	90.6	89.8	89.1	89.6	85.3
Net imports.....	11.5	11.6	12.4	11.0	11.1	10.8	11.1	12.1	11.1	11.1
Stock change <sup>2</sup> .....	-2.9	-1.8	+0.3	-4.0	-2.2	-1.4	-0.9	-1.2	-1.7	3.0
<b>Net utilization</b> .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Domestic use.....	91.6	88.3	91.1	90.7	86.4	85.7	86.3	86.5	87.8	88.2
Food:										
Civilian.....	75.1	76.0	75.2	77.1	74.7	73.5	74.8	75.1	76.9	75.7
Military <sup>3</sup> .....	3.3	1.4	1.7	1.7	1.2	1.6	1.7	1.6	1.4	1.3
Net nonfood <sup>4</sup> .....	13.2	10.9	14.2	11.9	10.5	10.6	9.8	9.8	9.5	9.2
Exports and shipments.....	8.4	11.7	8.9	0.3	13.6	14.3	13.7	13.5	12.2	13.8

<sup>1</sup> Meat production includes carcass weight of commercial and farm slaughter; excludes change in live animal inventory.

<sup>2</sup> Includes farm and commercial stocks and holdings under Government programs. Minus sign (-) indicates increase in stocks from beginning to end of year; plus sign (+) indicates withdrawals from stocks.

<sup>3</sup> Includes civilian feeding in areas occupied by our Armed Forces.

<sup>4</sup> Includes some waste and loss at farm level.

Source: Dept. of Agriculture, Economic Research Service; *The National Food Situation*.

## No. 957. VALUE OF RAW MATERIALS IN CONSTANT DOLLARS—SUMMARY, BY MAJOR GROUPS: 1950 TO 1966

[In millions of 1964 dollars. Annual averages. These measures estimated to cover over 95 percent of all U.S. production and consumption; for details on scope and methodology and for historical series, see source]

ITEM AND YEAR	All raw materials	AGRICULTURAL MATERIALS			Fishery and wildlife products	Forest products	MINERALS			
		Total	Crops	Live-stock			Total	Metallic ores	Mineral fuels	Other minerals
<b>Production:</b>										
1950-1954.....	41,404	24,964	10,353	14,611	442	2,713	13,345	1,567	10,051	1,727
1955-1959.....	46,139	27,796	11,435	16,361	450	2,723	15,170	1,713	11,178	2,279
1960-1964.....	49,886	30,163	12,336	17,767	442	2,713	16,528	1,875	11,919	2,734
1965.....	54,512	32,764	14,127	18,637	491	2,989	18,268	1,969	13,051	3,248
1966.....	54,256	31,518	12,498	19,020	472	2,987	19,279	2,039	13,810	3,430
<b>Imports: <sup>1</sup></b>										
1950-1954.....	8,052	4,083	4,044	639	304	352	2,713	1,494	964	255
1955-1959.....	9,378	4,899	4,201	698	373	388	3,718	1,846	1,579	293
1960-1964.....	10,445	5,419	4,454	965	527	462	4,037	1,592	2,107	338
1965.....	11,380	5,412	4,398	1,014	653	528	4,796	1,842	2,538	416
1966.....	12,059	5,697	4,562	1,145	753	557	5,052	1,942	2,647	463
<b>Exports: <sup>1</sup></b>										
1950-1954.....	3,877	2,785	2,370	415	46	78	968	277	616	75
1955-1959.....	6,163	3,789	3,130	639	64	100	1,230	445	679	108
1960-1964.....	6,668	5,275	4,509	766	78	128	1,187	625	418	144
1965.....	7,197	5,744	4,940	804	116	141	1,196	554	446	196
1966.....	7,661	6,140	5,472	668	127	169	1,235	572	467	206
<b>Consumption:</b>										
1950-1954.....	44,875	26,244	11,285	14,959	701	2,986	14,944	2,747	10,297	1,900
1955-1959.....	49,390	28,164	11,594	16,570	759	3,012	17,455	2,985	12,006	2,464
1960-1964.....	53,735	30,363	12,319	18,044	891	3,047	19,484	2,986	13,578	2,920
1965.....	58,411	31,956	12,963	18,993	1,028	3,376	22,051	3,444	15,127	3,480
1966.....	60,398	32,740	13,265	19,475	1,098	3,385	23,175	3,594	15,991	3,580

<sup>1</sup> Excludes gold.

Source: Dept. of Commerce, Bureau of the Census and Dept. of the Interior, Bureau of Mines; *Raw Materials in the United States Economy: 1900-1966* (Bureau of the Census Working Paper No. 30).

# No. 958. SELECTED AGRICULTURAL PRODUCTS—U.S. AND WORLD PRODUCTION AND EXPORTS: 1970

[Cotton, soybean, and grain production for crop year; other commodities and all export data for calendar year and partially estimated, except as indicated. U.S. data exclude Alaska, Hawaii, and Puerto Rico, except for exports]

COMMODITY	Unit	PRODUCTION			EXPORTS		
		U.S.	World		U.S.	World	
			Total	Percent U.S.		Total	Percent U.S.
Wheat.....	Million bushels.....	1,378	10,586	13.0	1,541	11,900	28.5
Corn for grain.....	Million bushels.....	4,104	9,543	43.0	1,025	11,110	50.3
Soybeans.....	Million bushels.....	1,136	1,535	74.0	435	461	94.4
Rice <sup>2</sup> .....	1,000 metric tons.....	<sup>3</sup> 3,826	<sup>3</sup> 197,395	2.0	<sup>3</sup> 2,720	<sup>3</sup> 8,672	31.4
Lard.....	Million pounds.....	1,900	8,620	22.0	366	930	39.4
Tallow and grease.....	Million pounds.....	5,375	9,403	57.2	2,255	4,950	76.5
Tobacco, unmanufactured.....	Million pounds.....	1,874	9,990	18.8	510	1,790	28.5
Edible vegetable oils <sup>4</sup> .....	1,000 short tons.....	<sup>6</sup> 6,928	26,350	26.3	<sup>7</sup> 3,400	<sup>8</sup> 8,970	37.9
Cotton.....	1,000 bales <sup>9</sup> .....	10,270	51,496	20.0	3,101	17,180	18.1

<sup>1</sup> Fiscal year 1969-70. <sup>2</sup> Rough basis. Excludes production data for Communist Asia. <sup>3</sup> Calendar year 1969.

<sup>4</sup> Excludes animal oils. <sup>5</sup> Includes palm oils. <sup>6</sup> Includes oil equivalent of exported oilseeds.

<sup>7</sup> Excludes reexports and exports of oil produced from imported raw materials.

<sup>8</sup> Exports from producing countries. <sup>9</sup> Bales of 480 pounds, net weight.

Source: Dept. of Agriculture, Foreign Agricultural Service. Appears irregularly in *World Agriculture Production and Trade*.

# No. 959. AGRICULTURAL EXPORTS AND IMPORTS—VALUE: 1942 TO 1970

[In millions of dollars, except percent. For years ending June 30. Includes Puerto Rico. Excludes forest products and distilled liquors; includes crude rubber and similar gums (now mainly plantation products)]

YEARLY AVERAGE	EXPORTS		IMPORTS		YEAR	EXPORTS		IMPORTS	
	Total (domestic products)	Percent of all	Total	Percent of all		Total (domestic products)	Percent of all	Total	Percent of all
1942-1946.....	1,976	19	1,645	46	1960.....	4,517	24	4,010	26
1947-1951.....	3,468	28	3,378	46	1965.....	6,097	23	3,986	20
1952-1956.....	3,290	21	4,209	39	1968.....	6,311	20	4,656	16
1957-1961.....	4,383	23	3,878	28	1969.....	5,741	16	4,981	14
1962-1966.....	5,812	24	4,770	22	1970 (prel.).....	6,646	16	5,461	14

Source: Dept. of Agriculture, Economic Research Service. In annual report, *Agricultural Statistics*.

# No. 960. PRINCIPAL AGRICULTURAL EXPORTS—VALUE: 1941 TO 1970

[In millions of dollars. Includes Puerto Rico. Excludes reexports of foreign products. Includes shipments under foreign aid programs. Prior to 1948, excludes civilian supply shipments]

ITEM	1941-1945, avg.	1946-1950, avg.	1951-1955, avg.	1956-1960, avg.	1961-1965, avg.	1966-1970, avg.	1965	1969	1970
Agricultural exports.....	1,654	3,223	3,314	4,264	5,644	6,478	6,229	5,936	7,322
Meats and meat products.....	373	114	59	104	162	179	170	210	188
Eggs and dairy products.....	377	270	117	130	146	130	192	131	137
Animal fats and oils.....	109	109	172	182	193	178	224	164	217
Hides and skins.....	1	16	37	64	89	140	109	182	144
Broad grains and preparations.....	113	896	700	821	1,268	1,197	1,214	866	1,144
Coarse grains and prepn., exc. rice.....	31	225	324	478	841	1,083	1,162	897	1,100
Rice.....	30	83	119	117	178	310	244	348	366
Fodders and feeds.....	4	19	34	65	179	386	278	405	496
Vegetables and preparations.....	59	73	83	115	134	169	151	172	181
Fruits and preparations.....	84	128	151	245	285	311	312	325	330
Vegetable oils, fats and waxes, oilseeds, nuts and prepn.....	46	145	254	499	774	1,182	1,029	1,101	1,642
Tobacco, unmanufactured.....	138	268	315	355	393	506	383	540	488
Cotton.....	162	674	761	778	639	408	495	286	378
All other.....	140	203	191	312	362	299	265	339	571

Source: Dept. of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States; Quarterly Summary of Foreign Commerce of the United States; FT410, U.S. Exports, Schedule B Commodity and Country*, and unpublished data.

# No. 961. AGRICULTURAL EXPORTS UNDER SPECIFIED GOVERNMENT-FINANCED PROGRAMS—VALUE, BY PROGRAM: 1955 TO 1970

(In millions of dollars, except percent. For years ending June 30. Includes Puerto Rico)

ITEM	1955	1960		1965		1968	1969	1970	
		Total	Percent	Total	Percent			Total	Percent
Agricultural exports <sup>1</sup> .....	3,144	4,517	100.0	6,097	100.0	6,311	5,741	6,646	100.0
Outside Government programs <sup>1,2</sup> .....	2,309	3,234	71.6	4,499	73.8	5,014	4,698	5,633	84.8
Under Government programs <sup>1</sup> .....	835	1,283	28.4	1,598	26.2	1,297	1,043	1,013	15.2
Public Law 480.....	385	1,116	24.7	1,572	25.8	1,280	1,037	1,013	15.2
Sales for foreign currency.....	73	824	18.2	1,142	18.8	723	344	304	4.6
Long-term credit sales.....	-	-	-	158	2.6	290	428	468	7.0
Government-to-Government donations.....	52	38	0.9	57	0.9	100	110	113	1.7
Donations through voluntary relief agencies.....	135	105	2.3	183	3.0	152	154	128	1.9
Barter for strategic materials.....	125	149	3.3	32	0.5	6	1	-	-
Mutual Security (Act for International Development) <sup>3</sup> .....	450	167	3.7	26	0.4	17	6	-	-

- Represents zero.

<sup>1</sup> Sources of values for Government-financed programs are different from those for total exports; therefore, not fully comparable in regard to valuation, shipping period, etc. Entries for "outside Government programs" are the residuals of the other Government-financed programs from total exports. Government-financed programs include: (a) barter for overseas procurement for other U.S. agencies, (b) short-term Commodity Credit Corporation and the Export-Import Bank, (c) sales of Government-owned commodities below domestic market prices, and (d) export payments in cash or in kind.

<sup>2</sup> Sales for foreign currency, economic aid, and expenditures under development loans.

Source: Dept. of Agriculture, Economic Research Service. In annual report, *Agricultural Statistics*, and monthly report, *Foreign Agricultural Trade of the United States*.

# No. 962. AGRICULTURAL EXPORTS UNDER SPECIFIED GOVERNMENT-FINANCED PROGRAMS—VALUE, BY COMMODITIES: 1967 TO 1970

(In millions of dollars. For years ending June 30. Includes Puerto Rico. Total exports include food for relief and charity. See table 961 for programs covered)

COMMODITY	1967		1968		1969		1970	
	Total	Under specified programs <sup>1</sup>	Total	Under specified programs <sup>1</sup>	Total	Under specified programs <sup>1</sup>	Total	Under specified programs <sup>1</sup>
Total.....	6,771.3	1,308.4	6,311.5	1,297.5	5,741.4	1,042.7	6,646.3	1,013.2
Wheat.....	1,181.0	463.5	1,192.5	574.1	787.6	320.3	831.3	297.6
Wheat flour.....	130.8	66.2	85.0	60.2	105.6	83.3	110.3	90.4
Bulgur wheat.....	21.5	18.0	22.5	22.5	26.0	25.5	21.3	20.2
Rolled wheat.....	6.9	5.7	5.0	3.6	3.7	3.3	1.7	1.0
Corn.....	728.3	53.0	736.4	23.4	632.1	13.4	834.4	34.5
Grain sorghums.....	358.3	120.1	224.1	64.9	128.5	23.1	149.9	28.1
Barley.....	54.0	3.6	30.6	-	12.1	1.1	9.8	-
Cornmeal.....	20.7	15.4	16.0	12.1	11.4	7.8	12.6	8.3
Oatmeal, groats, and rolled oats.....	3.8	2.2	8.6	6.3	6.9	3.5	6.0	3.2
Rice.....	305.4	131.3	337.1	135.2	319.9	108.1	321.7	143.4
Cotton.....	542.3	138.8	474.8	118.6	328.6	98.0	346.6	137.7
Tobacco, unmanufactured.....	549.7	30.2	493.7	31.3	506.9	30.9	539.6	18.4
Soybean oil.....	145.8	107.1	117.8	104.4	59.6	76.9	138.7	85.1
Tallow, edible and inedible.....	156.0	22.9	127.4	20.5	122.0	24.9	152.0	8.5
Milk, evaporated and condensed.....	23.7	17.8	10.1	5.7	18.9	12.8	13.6	7.4
Milk, dried, whole.....	4.2	1.0	2.6	1.1	4.3	-	5.7	-
Milk, nonfat, dried.....	68.5	64.3	66.1	64.2	81.1	73.9	78.3	74.9
Butter.....	.3	-	2.3	17.5	5.2	24.8	.2	-
Anhydrous milkfat.....	3.1	-	11.9	18.9	18.9	20.8	-	-
Infants' and dietetic foods.....	26.2	18.6	31.8	23.3	35.6	30.7	20.8	24.7
Hides and skins.....	146.9	5.4	110.8	1.8	136.4	.1	157.3	.2
Beans, dry edible.....	30.3	.4	23.3	2.7	26.9	.6	38.3	.2
Other.....	2,263.6	13.9	2,175.1	5.1	2,333.2	19.7	2,856.2	29.4

- Represents zero.

<sup>1</sup> Sources of values for specified Government-financed programs are different from those for total exports; therefore, not fully comparable in regard to valuation, shipping period, etc.

Source: Dept. of Agriculture, Economic Research Service. In annual report, *Agricultural Statistics*, and monthly report, *Foreign Agricultural Trade of the United States*.

## No. 963. ACREAGES OF HARVESTED CROPS FOR SPECIFIED PURPOSES: 1950 TO 1970

ITEM	1950	1955	1960	1965	1968	1969	1970 (prel.)
Crops harvested <sup>1</sup> .....mil. acres.....	345	340	324	298	303	294	297
Domestic use <sup>2</sup> .....mil. acres.....	205	203	200	222	240	233	225
Per capita <sup>3</sup> .....acres.....	1.94	1.78	1.44	1.14	1.24	1.15	1.10
Export.....mil. acres.....	50	47	64	70	54	61	72

<sup>1</sup> Area in 59 principal crops harvested as reported by Statistical Research Service plus acreage in fruits, tree nuts, and farm gardens.

<sup>2</sup> Includes feed for horses and mules.

<sup>3</sup> Based on Bureau of the Census estimated resident population as of July 1.

Source: Dept. of Agriculture, Economic Research Service; annual report, *Changes in Farm Production and Efficiency*.

## No. 964. CROPS—ACREAGE, PRODUCTION, AND VALUE: 1959 AND 1964

CROP	ACREAGE (1,000)		PRODUCTION (1,000 units)			VALUE (mil. dol.)	
	1959	1964	Unit	1959	1964	1959	1964
All crops harvested <sup>1</sup> .....	316,259	291,640	(X)	(X)	(X)	18,846	21,753
All field crops <sup>2</sup> .....	308,187	283,619	(X)	(X)	(X)	10,084	18,378
Corn for all purposes <sup>3</sup> .....	79,616	63,515	(X)	(X)	(X)	4,384	4,636
Sorghum for all purposes.....	17,927	14,966	(X)	(X)	(X)	577	680
All wheat threshed.....	49,667	47,958	Bu.....	1,055,925	1,217,792	1,872	1,672
Oats threshed.....	26,573	15,936	Bu.....	1,001,092	808,397	639	510
Barley threshed.....	14,199	9,805	Bu.....	395,312	362,198	343	338
Rye threshed.....	1,392	1,640	Bu.....	21,809	30,916	22	32
Flaxseed threshed.....	2,848	2,651	Bu.....	19,597	21,739	60	61
Rice threshed.....	1,617	1,815	Lb.....	5,440,334	7,482,412	249	369
Soybeans harvested for beans.....	22,080	29,844	Bu.....	515,628	669,665	1,018	1,780
Cowpeas harvested for dry peas.....	179	79	Bu.....	1,475	648	6	3
Soybeans and cowpeas cut for hay.....	434	472	Tons.....	540	628	13	17
Peanuts harvested for nuts.....	1,333	1,347	Lb.....	1,413,428	2,004,045	135	225
Peanut vines or tops saved for hay.....	327	393	Tons.....	197	248	4	5
Dry field and seed beans.....	1,414	1,338	Lb.....	1,908,734	1,765,685	138	136
Dry field and seed peas, ex. cowpeas and Austrian winter peas.....	344	300	Lb.....	499,346	497,998	20	19
Hay, excl. sorghum for hay and spei- fied annual legumes.....	63,549	65,295	Tons.....	106,590	115,761	2,181	2,744
Alfalfa seed harvested.....	673	675	Lb.....	108,737	131,136	31	40
Red clover seed harvested.....	1,141	822	Lb.....	85,393	78,936	23	19
Lespedeza seed harvested.....	422	251	Lb.....	94,706	49,276	9	7
Cotton harvested (lint).....	14,649	13,917	Bales.....	13,914	14,734	2,120	2,390
Cottonseed.....	(X)	(X)	Tons.....	5,745	(NA)	222	
Tobacco harvested.....	1,108	1,025	Lb.....	1,648,513	1,987,527	948	1,168
Sugarcane cut for sugar.....	408	643	Tons.....	16,588	24,614	121	201
Sugarcane for sirup.....	15	7	Gal.....	3,070	1,986	4	3
Sugar beets harvested for sugar.....	912	1,376	Tons.....	16,822	23,202	187	277
Hops harvested.....	33	32	Lb.....	54,602	53,786	27	25
Irish potatoes harvested.....	1,200	1,174	Cwt.....	224,140	221,874	480	761
Sweet potatoes harvested.....	218	112	Bu.....	29,386	18,405	54	52
All other.....	4,009	3,231	(X)	(X)	(X)	196	208
Vegetables harvested for sale <sup>1</sup> .....	3,491	3,334	(X)	(X)	(X)	740	987
Fruits and nuts.....	4,311	4,412	(X)	(X)	(X)	1,408	1,683
Strawberries.....	85	66	Lb.....	418,839	491,234	75	97
Other berries and small fruits.....	106	95	Lb.....	279,987	295,220	38	48
Tree fruits, nuts and grapes (excl. nurseries).....	4,120	4,251	(X)	(X)	(X)	1,295	1,538
Horticultural specialties.....	269	275	(X)	(X)	(X)	615	704

NA. Not available. X. Not applicable.

<sup>1</sup> Includes vegetables and fruits.  
<sup>2</sup> Includes vegetables.  
<sup>3</sup> Includes vegetables.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1964*, Vol. II.

## No. 965. PRINCIPAL CROPS—ACREAGE, PRODUCTION, AND VALUE: 1946 TO 1970

[Excludes Alaska and Hawaii. For weights of units of measure, see Appendix I. Acreage, production, and yield of all crops revised on basis of census data. See also *Historical Statistics, Colonial Times to 1957*, series K 265-312, for acreage harvested, production, and price data for all crops listed except sorghums, peanuts, and dry beans]

ITEM	1946- 1950, avg.	1951- 1955, avg.	1956- 1960, avg.	1961- 1965, avg.	1960	1965	1968	1969	1970 (prel.)
<b>Corn for grain:</b>									
Acreage harvested...1,000 acres..	75,711	70,082	67,001	56,658	71,422	55,332	55,880	54,508	57,350
Production.....mil. bu.	2,808	2,814	3,442	3,758	3,907	4,084	4,393	4,583	4,110
Farm value <sup>1</sup> .....mil. dol.	(NA)	4,187	4,074	4,243	3,929	4,732	4,763	5,290	5,470
Yield per acre.....bu.	37.0	40.2	51.2	66.3	54.7	73.8	78.6	83.9	71.7
Price <sup>2</sup> .....dol. per bu.	1.66	1.49	1.11	1.13	1.00	1.16	1.08	1.16	1.34
<b>Wheat:</b>									
Acreage harvested...1,000 acres..	70,312	60,497	50,082	48,017	51,879	49,560	55,262	47,577	44,306
Production.....mil. bu.	1,185	1,077	1,178	1,214	1,355	1,316	1,576	1,460	1,378
Farm value <sup>1</sup> .....mil. dol.	2,398	2,229	2,140	2,027	2,361	1,775	1,950	1,816	1,870
Yield per acre.....bu.	16.9	17.9	23.4	25.3	26.1	26.5	28.5	30.7	31.1
Price <sup>2</sup> .....dol. per bu.	2.01	2.07	1.85	1.69	1.74	1.35	1.24	1.24	1.36
<b>Oats:</b>									
Acreage harvested...1,000 acres..	39,409	37,872	30,598	21,162	26,588	18,479	17,533	17,930	18,580
Production.....mil. bu.	1,339	1,311	1,209	953	1,153	927	939	960	909
Farm value <sup>1</sup> .....mil. dol.	1,071	950	751	604	693	585	569	565	577
Yield per acre.....bu.	33.9	34.6	39.7	45.2	43.4	50.2	53.6	53.0	48.9
Price <sup>2</sup> .....dol. per bu.	.81	.73	.62	.63	.60	.62	.60	.59	.63
<b>Barley:</b>									
Acreage harvested...1,000 acres..	10,853	10,847	14,248	11,135	13,856	9,144	9,709	9,531	9,642
Production.....mil. bu.	281	303	429	398	429	392	423	424	410
Farm value <sup>1</sup> .....mil. dol.	361	338	380	374	365	395	381	399	374
Yield per acre.....bu.	25.8	27.9	30.1	36.2	31.0	42.9	43.6	44.4	42.6
Price <sup>2</sup> .....dol. per bu.	1.29	1.15	.90	.95	.84	1.02	.91	.87	.92
<b>Rye:</b>									
Acreage harvested...1,000 acres..	1,791	1,678	1,657	1,655	1,688	1,469	1,014	1,340	1,486
Production.....mil. bu.	22	22	28	33	33	33	23	32	39
Farm value <sup>1</sup> .....mil. dol.	36	30	29	33	30	33	24	32	37
Yield per acre.....bu.	12.2	13.2	16.7	19.7	19.6	22.6	23.0	23.5	25.9
Price <sup>2</sup> .....dol. per bu.	1.63	1.37	1.03	1.01	.88	.97	1.02	1.00	.96
<b>Sugar beets:</b>									
Acreage harvested...1,000 acres..	797	743	883	1,212	957	1,248	1,410	1,541	1,415
Production.....mil. short tons..	11	12	15	21	16	21	25	28	26
Farm value <sup>1</sup> .....mil. dol.	125	135	178	248	190	250	350	353	387
Yield per acre.....short tons..	14.1	15.9	17.5	17.1	17.2	16.8	18.0	18.0	18.4
Price <sup>2</sup> .....dol. per ton.	11.11	11.45	11.54	11.98	11.58	11.95	13.81	12.72	14.90
<b>Rice, rough:</b>									
Acreage harvested...1,000 acres..	1,718	2,106	1,501	1,742	1,595	1,793	2,353	2,128	1,815
Production.....mil. cwt.	37	53	49	68	55	76	104	91	83
Farm value <sup>1</sup> .....mil. dol.	185	268	233	340	248	376	521	450	421
Yield per acre.....lb.	2,161	2,549	3,265	3,892	3,423	4,255	4,422	4,268	4,566
Price <sup>2</sup> .....dol. per cwt.	5.01	5.05	4.76	5.00	4.55	4.93	5.00	4.95	5.08
<b>Sorghums for grain:</b>									
Acreage harvested...1,000 acres..	7,283	8,955	15,284	12,181	15,601	13,029	13,995	13,525	13,751
Production.....mil. bu.	143	170	506	548	620	673	740	747	697
Farm value <sup>1</sup> .....mil. dol.	180	209	471	549	515	668	699	791	785
Yield per acre.....bu.	19.2	18.7	32.4	45.0	39.7	51.6	52.9	55.3	50.7
Price <sup>2</sup> .....dol. per bu.	1.33	1.29	.96	1.01	.84	1.00	.95	1.07	1.13
<b>Cotton, excluding linters:</b>									
Acreage harvested...1,000 acres..	21,421	22,678	14,290	14,617	15,309	13,615	10,160	11,058	11,168
Production.....mil. bales <sup>3</sup>	12	15	13	15	14	15	11	10	10
Farm value <sup>1</sup> .....mil. dol.	1,975	2,565	2,022	2,312	2,154	2,106	1,212	1,055	1,155
Yield per acre.....lb.	273	326	434	491	446	527	516	434	441
Price <sup>2</sup> .....cents per lb.	32.72	34.13	31.30	30.99	30.19	28.14	22.15	21.00	21.6
<b>Cottonseed:</b>									
Production.....mil. short tons..	5	6	5	6	6	6	5	4	4
Farm value <sup>1</sup> .....mil. dol.	339	367	243	298	250	284	234	172	239
Price <sup>2</sup> .....dol. per ton.	70.96	59.28	45.94	48.70	42.60	46.70	50.50	41.10	55.60

See footnotes at end of table.

No. 965. PRINCIPAL CROPS—ACREAGE, PRODUCTION, AND VALUE: 1946 TO 1970—Continued

[Excludes Alaska and Hawaii. For weights of units of measure, see Appendix I. Acreage, production, and yield of all crops revised on basis of census data. See also *Historical Statistics, Colonial Times to 1957*, series K 285-312, for acreage harvested, production, and price data for all crops listed except sorghums, peanuts, and dry beans]

ITEM	1946- 1950, avg.	1951- 1955, avg.	1956- 1960, avg.	1961- 1965, avg.	1960	1965	1968	1969	1970 (prel.)
<b>Hay:</b>									
.....	73,630	74,777	69,066	67,285	67,313	67,684	62,693	62,063	63,234
.....	99	100	115	120	118	126	126	128	128
Yield per acre.....short tons..	2,174	2,455	2,282	2,679	2,410	2,913	2,897	2,984	3,072
Price <sup>2</sup> .....dol. per ton..	1.35	1.46	1.66	1.78	1.76	1.85	2.00	2.06	2.02
.....	21.90	22.50	20.90	22.80	21.70	23.20	23.10	24.70	25.70
<b>Beans, dry, edible: <sup>3</sup></b>									
.....acres..	1,747	1,414	1,451	1,414	1,400	1,484	1,434	1,490	1,428
.....cwt..	17	16	18	18	17	16	17	19	18
.....dol..	147	128	123	134	124	143	142	144	147
Yield per acre.....lb..	970	1,146	1,215	1,296	1,244	1,109	1,213	1,268	1,232
Price <sup>2</sup> .....dol. per cwt..	8.81	7.96	6.97	7.38	7.14	8.68	8.20	7.61	8.48
<b>Soybeans, for beans:</b>									
.....	11,263	15,709	22,351	29,694	23,655	34,440	41,104	40,982	42,447
.....	230	313	520	719	555	846	1,103	1,126	1,136
.....	581	798	1,075	1,770	1,185	2,151	2,679	2,647	3,204
Yield per acre.....bu..	20.4	20.0	23.2	24.2	23.5	24.5	26.8	27.5	26.8
Price <sup>2</sup> .....dol. per bu..	2.56	2.57	2.07	2.46	2.13	2.54	2.43	2.35	2.82
<b>Peanuts, harvested for nuts:</b>									
Acreage harvested...1,000 acres..	2,877	1,550	1,442	1,406	1,395	1,435	1,436	1,448	1,455
Production.....mil. lb..	2,091	1,429	1,620	1,960	1,718	2,384	2,543	2,523	2,987
Farm value <sup>1</sup> .....mil. dol..	213	160	168	219	172	272	302	311	385
Yield per acre.....lb..	742	894	1,124	1,393	1,232	1,661	1,771	1,743	2,053
Price <sup>2</sup> .....dol. per lb..	.10	.11	.10	.11	.10	.11	.12	.12	.13
<b>Irish potatoes:</b>									
Acreage harvested...1,000 acres..	1,992	1,420	1,378	1,361	1,386	1,384	1,376	1,413	1,425
Production.....mil. cwt..	9259	9217	9252	272	257	291	294	312	325
Farm value <sup>1</sup> .....mil. dol..	604	479	476	580	513	731	653	694	712
Yield per acre.....cwt..	132	153	183	200	185	210	214	221	228
Price <sup>2</sup> .....dol. per cwt..	2.18	2.25	1.90	2.17	2.00	2.53	2.23	2.23	2.20
<b>Tobacco:</b>									
Acreage harvested...1,000 acres..	1,718	1,670	1,172	1,126	1,142	977	880	920	890
Production.....mil. lb..	2,080	2,217	1,864	2,160	1,944	1,855	1,710	1,804	1,906
Farm value <sup>1</sup> .....mil. dol..	974	1,141	1,075	1,311	1,184	1,207	1,189	1,296	1,376
Yield per acre.....lb..	1,215	1,331	1,591	1,921	1,703	1,598	1,943	1,961	2,120
Price <sup>2</sup> .....dol. per lb..	.47	.51	.58	.61	.61	.65	.70	.72	.72

NA Not available.

<sup>1</sup> Values are based on season average prices; see footnote 2.

<sup>2</sup> Season average price received by farmers. State prices weighted by production to obtain U.S. price prior to 1958, but weighted by sales beginning 1958. For certain years, prices for wheat, rye, corn for grain, grain sorghums, oats, barley, dry edible beans, soybeans, flaxseed, cotton, and cottonseed include an allowance for unredeemed loans and purchase agreement deliveries. See also notes on prices for each crop.

<sup>3</sup> Based on reported price of grain sorghums.

<sup>4</sup> State production figures, which conform with Bureau of the Census annual ginning enumeration with allowance for cross-State ginnings, rounded to thousands and added for U.S. totals.

<sup>5</sup> Bales of 500 pounds, gross weight.

<sup>6</sup> Average price to April 1, 1971.

<sup>7</sup> Prices are for hay sold baled.

<sup>8</sup> Cleaned basis.

<sup>9</sup> Includes some quantities not harvested and/or not marketed on account of economic conditions.

Source: Dept. of Agriculture, Statistical Reporting Service. In annual report, *Agricultural Statistics*, and annual summaries, *Crop Production and Crop Values*.

# No. 966. PRINCIPAL CROPS—ACREAGE AND VALUE, 1968 TO 1970, AND ORDER OF VALUES, 1970, BY STATES

[Acreage covers 59 major field crops and vegetables; value covers 78 major field crops, vegetables, fruits, and nuts]

STATE	HARVESTED ACREAGE OF 59 CROPS (1,000)			FARM VALUE OF 78 CROPS (mil. dol.)			Crops in order of value, 1970
	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	
<b>U.S.</b>	295,099	286,665	289,496	22,610	22,895	24,104	Corn, soybeans, hay, wheat.
<b>N.E.:</b>							
Maine.....	543	520	502	88	96	85	Potatoes, hay, apples, oats.
N.H.....	151	145	142	11	10	13	Hay, apples, sweet corn, potatoes.
Vt.....	618	593	591	30	32	37	Hay, apples, maple sirup, potatoes.
Mass.....	199	186	180	48	51	60	Cranberries, tobacco, hay, apples.
R.I.....	25	23	23	4	5	5	Potatoes, hay, apples, peaches.
Conn.....	153	170	169	44	46	45	Tobacco, hay, apples, potatoes.
<b>M.A.:</b>							
N.Y.....	4,365	4,268	4,305	370	391	402	Hay, potatoes, apples, corn.
N.J.....	516	478	478	110	104	110	Tomatoes, hay, potatoes, peaches.
Pa.....	4,405	4,322	4,364	311	354	378	Hay, corn, potatoes, oats.
<b>E.N.C.:</b>							
Ohio.....	9,116	8,628	8,793	674	655	747	Corn, soybeans, hay, wheat.
Ind.....	10,631	10,473	10,612	824	920	946	Corn, soybeans, hay, wheat.
Ill.....	20,601	20,122	20,299	1,717	1,862	1,811	Corn, soybeans, hay, wheat.
Mich.....	6,069	5,715	5,653	470	470	531	Corn, hay, dry beans, soybeans.
Wis.....	9,193	9,032	9,075	559	542	584	Hay, corn, oats, potatoes.
<b>W.N.C.:</b>							
Minn.....	18,183	17,271	17,453	1,000	993	1,111	Corn, soybeans, hay, oats.
Iowa.....	20,444	20,094	20,790	1,633	1,671	1,827	Corn, soybeans, hay, oats.
Mo.....	11,794	10,660	11,390	755	647	732	Soybeans, corn, hay, wheat.
N.Dak.....	18,454	17,477	17,327	588	596	525	Wheat, hay, oats, barley.
S.Dak.....	14,357	13,814	14,430	430	433	409	Corn, hay, oats, wheat.
Nebr.....	15,725	15,616	16,014	775	939	905	Corn, hay, wheat, sorghum grain.
Kans.....	19,252	19,040	18,968	739	820	814	Wheat, sorghum grain, corn, hay.
<b>S.A.:</b>							
Del.....	496	480	491	33	44	47	Corn, soybeans, potatoes, hay.
Md.....	1,489	1,450	1,445	129	142	151	Corn, hay, tobacco, soybeans.
Va.....	2,679	2,620	2,651	286	314	324	Tobacco, hay, corn, peanuts.
W.Va.....	728	718	722	50	49	51	Hay, apples, corn, tobacco.
N.C.....	4,228	4,012	4,069	734	841	931	Tobacco, corn, soybeans, peanuts.
S.C.....	2,324	2,295	2,340	224	261	273	Tobacco, soybeans, cotton lint, peaches.
Ga.....	3,881	3,817	3,876	389	409	477	Peanuts, tobacco, corn, soybeans.
Fla.....	1,371	1,347	1,324	798	810	759	Oranges, grapefruit, sugarcane for sugar and seed, tomatoes.
<b>E.S.C.:</b>							
Ky.....	3,732	3,674	3,707	506	535	513	Tobacco, hay, corn, soybeans.
Tenn.....	4,037	4,044	4,043	301	313	330	Tobacco, soybeans, hay, cotton lint.
Ala.....	2,726	2,746	2,640	200	205	227	Cotton lint, peanuts, soybeans, hay.
Miss.....	4,911	4,814	4,921	440	364	460	Cotton lint, soybeans, cottonseed, hay.
<b>W.S.C.:</b>							
Ark.....	7,104	7,066	7,353	556	544	610	Soybeans, cotton lint, rice, hay.
La.....	3,547	3,524	3,634	420	339	408	Soybeans, rice, sugarcane for sugar and seed, cotton lint.
Okla.....	9,065	8,257	7,950	340	341	325	Wheat, hay, sorghum grain, peanuts.
Tex.....	20,630	19,845	18,986	1,424	1,214	1,405	Sorghum grain, cotton lint, rice, hay.
<b>Mt.:</b>							
Mont.....	8,244	8,144	8,206	289	293	288	Wheat, hay, barley, sugar beets.
Idaho.....	3,932	3,944	3,963	381	415	419	Potatoes, hay, wheat, sugar beets.
Wyo.....	1,822	1,780	1,831	72	78	82	Hay, sugar beets, wheat, barley.
Colo.....	5,513	5,056	6,215	277	290	340	Wheat, hay, corn, sugar beets.
N.Mex.....	1,224	1,115	1,131	112	103	103	Hay, sorghum grain, cotton lint, wheat.
Ariz.....	1,128	1,109	1,133	288	288	271	Cotton lint, hay, lettuce, sorghum grain.
Utah.....	1,095	1,071	1,090	73	76	75	Hay, wheat, barley, sugar beets.
Nev.....	392	467	486	21	28	28	Hay, alfalfa seed, wheat, barley.
<b>Pac.:</b>							
Wash.....	4,482	4,432	4,403	462	431	500	Wheat, apples, hay, potatoes.
Oreg.....	2,646	2,707	2,625	217	255	251	Hay, wheat, potatoes, barley.
Calif.....	6,860	6,587	6,742	2,408	2,287	2,381	Hay, grapes, tomatoes, cotton lint.

<sup>1</sup> Excludes Alaska and Hawaii.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production, Commercial Vegetables, Field Seeds, and Crop Values*.

# No. 967. CORN FOR GRAIN—PRODUCTION, DOMESTIC DISAPPEARANCE, EXPORTS, IMPORTS, AND STOCKS: 1941 TO 1970

[In millions of bushels. For years beginning October 1. Excludes Alaska, Hawaii, and Puerto Rico, except for exports and imports]

YEARLY AVERAGE OR YEAR	Production	Domestic disappearance <sup>1</sup>	Exports <sup>2</sup>	Imports <sup>2</sup>	Stocks, end of year
1941-1945.....	2,653	2,730	22	2	319
1946-1950.....	2,808	2,596	100	1	551
1951-1955.....	2,814	2,620	111	1	875
1956-1960.....	3,442	3,045	227	1	1,043
1961-1965.....	3,758	3,472	522	1	1,309
1960.....	3,907	3,387	292	1	2,016
1965.....	4,084	3,705	687	1	840
1967.....	4,760	3,789	653	1	1,162
1968.....	4,393	3,907	536	1	1,113
1969.....	4,583	4,086	612	1	999
1970 (prel.).....	4,110	3,964	500	5	650

<sup>1</sup> Total disappearance, minus exports of corn and grain equivalent of corn products.

<sup>2</sup> Compiled from reports of the Dept. of Commerce. Includes grain equivalent of corn products.

Source: Dept. of Agriculture, Economic Research Service; *Feed Statistics*, Statistical Bulletin No. 410; and *Feed Situation*; and Statistical Reporting Service, *Crop Production*.

# No. 968. CORN FOR GRAIN—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1968 TO 1970

[Pounds per bushel, 56]

STATE	ACREAGE HARVESTED			YIELD PER ACRE			PRODUCTION			PRICE <sup>1</sup>		FARM VALUE	
	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1969	1970 (prel.)	1969	1970 (prel.)
Total.....	1,000 acres	1,000 acres	1,000 acres	Bu.	Bu.	Bu.	Mu. bu.	Mu. bu.	Mu. bu.	Dol. per bu.	Dol. per bu.	Mu. dol.	Mu. dol.
	55,380	54,598	57,359	78.6	83.9	71.7	4,393	4,583	4,110	1.16	1.34	5,290	5,479
Ala.....	688	619	545	32.0	28.0	23.0	22	17	13	1.36	1.58	24	20
Calif.....	185	194	216	95.0	92.0	98.0	18	18	21	1.44	1.53	26	33
Colo.....	267	302	332	84.0	92.5	96.0	22	28	32	1.18	1.29	33	41
Del.....	177	170	185	49.0	78.0	74.0	9	13	14	1.25	1.46	17	20
Fla.....	373	358	322	42.0	39.0	25.0	16	14	8	1.28	1.60	18	13
Ga.....	1,455	1,426	1,426	40.0	33.0	31.0	58	47	44	1.37	1.61	64	71
Ill.....	10,088	9,698	10,066	89.0	98.0	74.0	898	950	745	1.18	1.37	1,121	1,020
Ind.....	4,790	4,742	5,027	85.0	96.0	74.0	407	455	372	1.15	1.35	524	502
Iowa.....	9,808	9,514	9,990	93.0	98.0	86.0	912	932	850	1.11	1.28	1,035	1,100
Kans.....	1,134	1,236	1,285	75.0	74.0	62.0	85	91	80	1.13	1.30	103	104
Ky.....	1,051	998	988	66.0	77.0	50.0	69	77	49	1.30	1.52	100	75
Md.....	484	479	484	66.0	81.0	83.0	32	39	40	1.27	1.47	49	59
Mich.....	1,266	1,266	1,444	76.0	74.0	79.0	96	94	114	1.14	1.30	107	148
Minn.....	4,548	4,139	4,594	81.0	85.0	85.0	368	352	390	1.05	1.21	369	472
Miss.....	370	318	248	39.0	31.0	28.0	14	10	7	1.37	1.56	14	11
Mo.....	2,958	2,603	2,837	83.0	70.0	61.0	246	182	173	1.19	1.40	217	242
Nebr.....	4,239	4,620	4,897	74.0	93.0	75.0	314	430	367	1.09	1.27	468	466
N.Y.....	235	247	279	72.0	75.0	79.0	17	19	22	1.34	1.46	25	32
N.C.....	1,348	1,281	1,345	60.0	68.0	50.0	81	87	67	1.29	1.53	112	103
Ohio.....	2,884	2,740	3,014	84.0	85.0	77.0	242	233	232	1.18	1.35	275	313
Pa.....	810	907	943	70.0	84.0	85.0	57	76	80	1.37	1.48	104	119
S.C.....	387	402	402	45.0	47.0	27.0	17	19	11	1.33	1.57	25	17
S. Dak.....	2,399	2,447	2,496	46.0	57.0	41.0	110	139	102	1.03	1.21	144	124
Tenn.....	658	605	569	47.0	46.0	40.0	31	28	23	1.82	1.53	37	35
Tex.....	501	571	531	52.0	44.0	61.0	26	25	32	1.29	1.42	32	46
Va.....	436	432	458	71.0	77.0	68.0	31	33	31	1.28	1.48	43	46
Wis.....	1,754	1,684	1,794	93.0	83.0	80.0	163	140	144	1.16	1.35	162	194
Other.....	587	600	642	53.5	56.2	57.1	32	34	37	(NA)	(NA)	42	52

NA Not available.

<sup>1</sup> Season average price received by farmers. State prices weighted by sales to obtain U.S. prices. Includes an allowance for unredeemed loan and purchase agreement deliveries valued at average rate.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production and Crop Values*.



## No. 969. WHEAT—SUPPLY AND DISAPPEARANCE: 1946 TO 1970

[In millions of 60-pound bushels. For years beginning July 1. Excludes Alaska, Hawaii, and Puerto Rico, except exports and imports. See *Historical Statistics, Colonial Times to 1967*, series K 272-273, for stocks on and off farms]

ITEM	1946- 1950, avg.	1951- 1955, avg.	1956- 1960, avg.	1961- 1965, avg.	1965	1968	1969	1970 (prel.)
<b>Supply</b> .....	1,410	1,739	2,273	2,346	2,134	2,117	2,282	2,264
Stocks, July 1, total.....	222	646	1,086	1,129	817	539	819	885
On farms.....	62	73	78	108	132	230	328	307
Interior mills, elevator and warehouse stocks <sup>1</sup> .....	157	521	920	982	674	308	400	577
Commodity Credit Corp. <sup>2</sup> .....	4	53	88	39	11	1	1	1
New crop.....	1,185	1,078	1,179	1,214	1,316	1,577	1,460	1,378
Imports <sup>3</sup> .....	3	15	8	3	1	1	3	1
<b>Disappearance</b> .....	1,128	966	1,111	1,392	1,599	1,298	1,397	1,557
Food and military procurement.....	597	486	488	506	515	520	520	525
Seed.....	88	76	62	62	62	61	55	60
Feed <sup>4</sup> and industry.....	137	75	44	62	155	173	216	235
Exports and shipments <sup>5</sup> .....	306	328	517	762	867	544	606	737
<b>Old-crop carryover</b> <sup>6</sup> .....	282	773	1,162	954	535	819	885	706

<sup>1</sup> Includes "Terminal market" and "Merchant mills."

<sup>2</sup> Owned or controlled by CCC in storage or in transit to ports; other CCC wheat included in other categories.

<sup>3</sup> Imports comprise full duty wheat, wheat imported for feed, and dutiable flour and other wheat products in terms of wheat. Compiled from reports of the Bureau of the Census.

<sup>4</sup> Residual figure, assumed to roughly approximate wheat used for feed.

<sup>5</sup> Beginning 1961, shipments included in "Food and military procurement."

<sup>6</sup> For individual items, see "Stocks," above.

Source: Dept. of Agriculture, Economic Research Service; *Wheat Situation*.

## No. 970. WHEAT—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1968 TO 1970

[Pounds per bushel, 60]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bushels)			PRODUCTION (mil. bushels)			PRICE <sup>1</sup> (dol. per bu.)		FARM VALUE (mil. dol.)	
	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1969	1970 (prel.)	1969	1970 (prel.)
<b>Total</b> .....	55,262	47,577	44,306	28.5	30.7	31.1	1,576.3	1,460.2	1,378.5	1.24	1.36	1,815.7	1,870.4
Ala.....	111	85	83	25.0	29.0	28.0	2.8	2.5	2.3	1.20	1.27	3.0	3.0
Ariz.....	52	73	150	32.0	62.0	69.0	2.7	4.5	10.4	1.40	1.40	6.7	14.5
Ark.....	568	301	325	25.0	30.0	33.0	14.2	9.0	10.7	1.17	1.23	10.6	13.2
Calif.....	379	355	535	33.6	34.0	41.4	12.7	12.1	22.2	1.45	1.42	17.5	31.4
Colo.....	2,019	2,108	2,420	20.0	21.0	28.5	40.4	45.5	68.9	1.13	1.21	51.4	83.4
Ga.....	114	86	100	28.0	34.0	36.0	3.2	2.9	3.6	1.27	1.29	3.7	4.6
Idaho.....	1,286	1,051	929	45.6	45.7	46.0	56.4	48.0	42.7	1.25	1.38	60.1	59.1
Ill.....	1,384	1,273	993	36.0	37.0	36.0	40.8	47.1	35.7	1.18	1.30	55.6	46.5
Ind.....	977	870	774	35.0	39.0	33.5	34.2	33.9	29.8	1.14	1.31	38.7	39.0
Kans.....	9,761	9,840	9,061	26.0	31.0	33.0	253.5	305.3	299.0	1.19	1.28	303.3	382.7
Ky.....	208	183	170	30.0	34.0	36.0	6.2	6.2	6.1	1.22	1.32	7.6	8.1
Md.....	132	117	113	32.0	39.0	37.0	4.2	4.6	4.2	1.21	1.31	5.5	5.5
Mich.....	885	628	565	36.0	40.0	39.0	31.9	25.1	22.0	1.20	1.41	30.1	31.1
Minn.....	1,031	828	830	32.9	29.4	27.6	34.0	24.3	22.9	1.46	1.65	35.3	37.7
Miss.....	416	125	145	27.0	31.0	34.0	11.2	3.9	4.9	1.16	1.27	4.5	6.3
Mo.....	1,278	1,035	932	33.0	32.0	33.5	42.2	33.1	31.2	1.18	1.27	30.1	39.7
Mont.....	4,550	3,645	3,393	27.7	26.8	25.2	125.9	96.8	85.2	1.23	1.36	118.9	115.9
Nebr.....	3,159	2,780	2,558	32.0	31.5	38.0	101.1	87.6	97.2	1.17	1.23	102.5	119.6
N. Mex.....	305	159	184	25.0	27.0	30.0	7.6	4.3	5.5	1.29	1.35	5.5	7.5
N.Y.....	212	182	153	40.0	40.0	43.0	8.5	7.3	6.6	1.19	1.35	8.7	8.9
N.C.....	220	198	184	30.0	42.0	43.0	8.6	8.3	7.9	1.23	1.35	10.2	10.7
N. Dak.....	7,868	6,782	6,486	26.9	30.3	23.6	212.8	205.5	152.8	1.35	1.54	277.9	235.4
Ohio.....	1,226	1,067	971	37.0	37.0	37.0	45.4	30.5	35.9	1.19	1.42	47.0	51.0
Okl.....	5,321	4,150	3,777	23.0	28.5	26.0	122.4	118.3	98.2	1.23	1.31	145.5	128.6
Oreg.....	982	788	728	30.7	38.1	41.5	30.2	30.0	30.2	1.31	1.48	39.3	44.7
Pa.....	394	327	298	32.0	35.5	33.0	12.6	11.6	9.8	1.27	1.40	14.7	13.8
S.C.....	104	82	81	29.0	37.0	35.0	3.0	3.0	2.8	1.25	1.30	3.8	3.7
S. Dak.....	2,418	1,963	1,811	27.2	21.9	21.7	65.7	42.9	39.3	1.36	1.51	58.4	59.2
Tenn.....	273	224	217	27.0	32.0	34.0	7.4	7.2	7.4	1.25	1.34	9.0	9.9
Tex.....	3,825	2,869	2,267	22.0	24.0	24.0	84.2	68.9	54.4	1.25	1.30	86.1	70.7
Utah.....	261	220	207	28.7	26.5	28.9	7.5	6.1	6.0	1.32	1.39	8.0	8.3
Va.....	169	157	165	34.0	43.0	44.0	5.7	6.8	7.3	1.26	1.34	8.5	9.7
Wash.....	2,756	2,462	2,268	39.4	38.7	44.6	109.0	95.2	100.7	1.30	1.48	123.8	149.1
Wyo.....	281	242	221	30.3	20.2	28.3	8.5	4.9	6.3	1.09	1.18	5.3	7.4
Other.....	357	244	232	30.3	32.8	35.3	10.8	8.0	8.2	(NA)	(NA)	9.7	10.7

NA Not available. <sup>1</sup> See footnote 1, table 968.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production and Crop Values*.

**No. 971. SORGHUM FOR GRAIN—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1968 TO 1970**

[Pounds per bushel, 56]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bushels)			PRODUCTION (mil. bushels)			PRICE <sup>1</sup> (dol. per bu.)		FARM VALUE (mil. dol.)	
	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1969	1970 (prel.)	1969	1970 (prel.)
<b>Total.....</b>	<b>13,995</b>	<b>13,525</b>	<b>13,751</b>	<b>52.9</b>	<b>55.3</b>	<b>50.7</b>	<b>740</b>	<b>747</b>	<b>697</b>	<b>1.07</b>	<b>1.13</b>	<b>791</b>	<b>785</b>
Ariz.....	231	199	181	79.0	78.0	70.0	18	16	13	1.32	1.38	20	17
Ark.....	50	72	190	41.0	40.0	50.0	2	3	10	1.05	1.11	3	11
Calif.....	360	421	396	70.0	69.0	74.0	25	29	29	1.31	1.43	38	42
Colo.....	324	311	283	36.0	35.5	40.0	12	11	11	1.03	1.10	11	12
Iowa.....	48	36	32	70.0	82.0	74.0	3	3	2	.97	1.04	3	2
Kans.....	3,475	3,266	3,560	47.0	56.0	41.0	163	183	146	.99	1.09	181	159
Mo.....	216	214	242	66.0	64.0	53.0	14	14	13	1.01	1.11	14	14
Nebr.....	1,764	1,561	1,499	58.0	76.0	51.0	102	119	76	.96	1.06	114	81
N. Mex.....	279	301	307	58.0	56.0	57.0	16	17	17	1.16	1.15	20	20
N.C.....	45	49	46	52.0	56.0	53.0	2	3	2	1.10	1.34	3	3
Okl.....	638	542	542	41.0	47.0	43.0	26	25	23	1.00	1.13	28	26
S. Dak.....	244	207	282	34.0	44.0	34.0	8	0	10	.91	1.01	8	10
Tex.....	6,196	6,196	5,886	55.0	50.0	56.0	341	310	330	1.10	1.12	341	369
Other.....	135	150	305	45.2	44.2	46.6	6	7	14	(NA)	(NA)	7	17

NA Not available. <sup>1</sup> See footnote 1, table 968.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production and Crop Values*.

**No. 972. RICE, ROUGH EQUIVALENT—PRODUCTION, DOMESTIC DISAPPEARANCE, EXPORTS, IMPORTS, AND STOCKS: 1952 TO 1970**

[In thousands of hundredweight. For years beginning August 1]

YEARLY AVERAGE OR YEAR	Production	Domestic disappearance <sup>1</sup>	Exports <sup>1,2</sup>	Imports <sup>1,2</sup>	Stocks, end of year
1952-1956.....	54,116	25,899	23,605	282	18,067
1957-1961.....	50,026	27,107	25,185	373	12,278
1962-1966.....	74,156	30,113	42,951	243	7,939
1960.....	54,591	26,920	29,474	288	10,080
1965.....	76,281	30,846	43,315	680	8,239
1967.....	89,379	33,672	56,881	7	6,784
1968.....	104,075	35,640	<sup>3</sup> 56,175	10	16,210
1969 (prel.).....	90,838	35,071	54,013	221	16,403
1970 estimate.....	82,859	35,000	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Includes Puerto Rico. <sup>2</sup> Compiled from reports of the Dept. of Commerce.

<sup>3</sup> Adjusted on basis of bills of lading presented to the Dept. of Agriculture for payment.

Source: Dept. of Agriculture, Economic Research Service; annual report, *Rice Situation*.

**No. 973. RICE, ROUGH—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1968 TO 1970**

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (pounds)			PRODUCTION (mil. cwt.)			PRICE <sup>1</sup> (dol. per cwt.)		FARM VALUE (mil. dol.)	
	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1969	1970 (prel.)	1969	1970 (prel.)
<b>Total.....</b>	<b>2,353</b>	<b>2,128</b>	<b>1,815</b>	<b>4,422</b>	<b>4,268</b>	<b>4,566</b>	<b>104.1</b>	<b>90.8</b>	<b>82.9</b>	<b>4.95</b>	<b>5.08</b>	<b>449.9</b>	<b>420.5</b>
Ark.....	572	515	438	4,300	4,750	4,800	24.6	24.5	21.0	5.32	5.20	130.1	109.3
Calif.....	432	389	331	5,325	5,525	5,500	23.0	21.5	18.2	4.80	4.90	108.2	89.2
La.....	679	611	523	3,850	3,350	3,900	26.1	20.5	20.4	4.71	4.95	96.4	101.0
Miss.....	67	60	51	4,300	4,200	4,400	2.9	2.5	2.2	5.27	5.30	13.3	11.9
Mo.....	6	5	5	4,500	4,600	4,400	0.3	0.2	0.2	5.30	5.20	1.3	1.1
Tex.....	507	548	467	4,550	3,950	4,450	27.2	21.6	20.8	4.88	5.20	105.6	108.1

<sup>1</sup> See footnote 1, table 968.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production and Crop Values*.

# No. 974. IRISH POTATOES—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1968 TO 1970

[Excludes Alaska and Hawaii]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (cwt.)			PRODUCTION (mil. cwt.)			PRICE <sup>1</sup> (dol. per cwt.)		FARM VALUE (mil. dol.)	
	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1969	1970 (prel.)	1969	1970 (prel.)
<b>Total.....</b>	<b>1,376</b>	<b>1,413</b>	<b>1,425</b>	<b>214</b>	<b>221</b>	<b>228</b>	<b>294</b>	<b>312</b>	<b>325</b>	<b>2.23</b>	<b>2.20</b>	<b>694</b>	<b>712</b>
Ariz.....	10	13	11	230	230	240	2	3	3	2.90	3.15	9	9
Calif.....	91	92	88	323	317	340	29	29	30	2.53	2.99	74	89
Colo.....	48	50	53	236	232	256	11	12	14	1.90	1.79	22	24
Fla.....	42	40	37	162	180	162	7	7	6	3.10	3.88	22	23
Idaho.....	294	317	327	202	220	224	60	70	73	2.02	1.97	141	144
Maine.....	155	156	150	235	225	238	36	35	36	2.20	1.80	77	64
Mich.....	40	40	40	211	223	246	8	9	10	2.71	2.58	24	25
Minn.....	94	98	96	147	158	140	14	15	13	1.71	1.76	26	23
N.J.....	14	13	12	255	250	265	4	3	3	2.42	2.65	8	8
N.Y.....	70	69	65	249	247	261	17	17	17	2.78	2.51	47	42
N. Dak.....	108	113	116	145	143	150	16	16	17	1.61	1.50	26	26
Ohio.....	16	14	15	206	181	213	3	3	3	2.45	2.30	6	7
Oreg.....	47	50	58	258	271	279	12	13	16	2.01	1.88	27	30
Pa.....	37	36	35	205	220	240	8	8	8	3.19	2.60	25	22
Tex.....	27	27	26	165	163	175	4	4	5	3.51	4.07	16	19
Va.....	31	32	32	139	124	127	4	4	4	2.64	3.28	10	13
Wash.....	64	72	87	378	416	386	24	30	34	1.69	1.69	47	53
Wis.....	54	53	52	224	234	246	12	12	13	2.08	2.47	33	32
Other.....	136	130	127	156	161	164	21	21	21	(NA)	(NA)	53	67

NA Not available.

<sup>1</sup> Season average price received by farmers. State prices weighted by sales to obtain U.S. prices.Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production and Crop Values*.

# No. 975. COTTON—PRODUCTION, PRICES, CONSUMPTION, TRADE, AND CARRYOVER: 1941 TO 1970

[In thousands of bales, except price. For years ending July 31, except as noted. Excludes linters. Excludes Alaska, Hawaii, and Puerto Rico. Production figures relate to crop of preceding calendar year. Consumption figures relate to crop of preceding calendar year. Net exports and net imports are in thousands of bales. Average price per pound is average price received by growers. For source, see Statistical Reporting Service, *Cotton*, K 804.]

YEARLY AVERAGE OR YEAR	PRODUCTION		Average price per pound of upland cotton <sup>1</sup> (cents)	Consumption <sup>2</sup> (running bales)	Net exports of domestic cotton (running bales)	Net imports (equivalent 500-pound bales)	Carry-over (running bales)
	Running bales (counting round as half bales)	Equivalent 500-pound bales, gross weight					
1941-1945.....	11,640	11,967	17.3	10,301	1,372	185	11,074
1946-1950.....	11,875	12,102	20.4	9,038	3,029	262	5,014
1951-1955.....	13,997	14,093	35.2	9,339	3,977	162	6,821
1956-1960.....	12,905	13,013	31.8	8,708	5,100	137	10,207
1961-1965.....	14,779	14,795	31.0	8,688	4,924	142	10,589
1966.....	14,515	14,553	30.2	9,017	7,182	136	7,559
1967.....	14,933	14,973	28.0	9,171	4,060	118	14,291
1968.....	9,562	9,575	20.6	9,497	3,000	120	16,862
1969.....	7,439	7,453	25.4	9,485	4,669	105	12,533
1968.....	10,917	10,948	22.0	8,982	4,206	145	6,448
1969.....	9,937	10,008	20.9	8,215	2,731	66	6,521
1970 (prel.).....	10,116	10,186	22.4	7,964	2,769	50	5,700

<sup>1</sup> Data from Dept. of Agriculture, Statistical Reporting Service.<sup>2</sup> Beginning 1951, adjusted to cotton season.Source: Dept. of Commerce, Bureau of the Census (except as noted); annual report, *Cotton Production and Distribution*, through 1964; thereafter, *Current Industrial Reports*, Series M22F and *Cotton Ginnings*, Series A10.

# No. 976. COTTON AND COTTONSEED—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1968 TO 1970

[Cotton production excludes linters. Values shown are for marketing season or crop year and should not be confused with calendar year income]

YEAR AND STATE	COTTON					COTTONSEED			Total farm value
	Acres harvested	Bales (500 pounds gross)	Farm value	Yield per acre	Farm price per pound <sup>1</sup>	Quantity	Farm value	Farm price per ton	
<b>Total:</b>	1,000	1,000	\$1,000	Lb.	Cents	1,000 short tons	\$1,000	Dollars	\$1,000
1968.....	10,160	10,948	1,212,021	516	22.2	4,640	234,492	50.50	1,440,513
1969.....	11,058	10,009	1,054,981	434	21.1	4,068	172,030	41.10	1,227,011
1970 (prel.).....	11,168	10,270	1,155,347	441	21.6	4,093	238,541	55.60	1,393,888
<b>Alabama:</b>									
1968.....	525	397	46,807	362	23.6	166	7,968	48.00	54,775
1969.....	545	461	48,617	405	21.1	181	7,678	40.20	56,295
1970 (prel.).....	540	510	57,375	453	22.5	207	10,666	50.50	68,031
<b>Arizona:</b>									
1968.....	298	734	86,276	1,180	23.6	307	16,118	52.50	102,394
1969.....	310	634	70,886	979	22.4	253	10,467	39.80	81,353
1970 (prel.).....	275	489	59,025	854	24.2	200	12,180	60.00	71,205
<b>Arkansas:</b>									
1968.....	980	1,028	123,672	502	24.1	435	21,750	50.00	145,422
1969.....	1,055	1,140	124,620	518	21.9	462	20,082	42.10	144,711
1970 (prel.).....	1,080	1,075	120,938	478	22.5	428	25,425	56.50	146,363
<b>California:</b>									
1968.....	687	1,573	186,841	1,097	23.8	685	34,250	50.00	221,091
1969.....	701	1,315	162,861	898	23.3	540	21,300	37.70	174,161
1970 (prel.).....	662	1,166	145,726	845	25.0	499	33,567	67.00	179,293
<b>Georgia:</b>									
1968.....	395	266	29,150	322	22.0	111	5,539	49.90	34,689
1969.....	385	282	27,837	351	19.7	107	4,586	39.20	32,423
1970 (prel.).....	380	290	31,175	366	21.5	121	5,700	47.50	36,875
<b>Louisiana:</b>									
1968.....	410	545	61,838	636	22.7	229	11,587	50.60	79,425
1969.....	420	483	54,377	551	22.5	195	8,280	41.40	62,657
1970 (prel.).....	455	530	59,625	550	22.5	205	11,607	53.00	71,232
<b>Mississippi:</b>									
1968.....	1,105	1,522	174,401	660	22.9	645	33,476	51.90	207,877
1969.....	1,185	1,322	146,555	534	22.2	530	23,717	43.20	170,272
1970 (prel.).....	1,190	1,035	179,850	659	22.0	626	37,518	55.50	217,368
<b>Missouri:</b>									
1968.....	190	197	25,777	495	26.2	84	4,099	48.80	29,876
1969.....	292	326	35,740	533	22.0	132	5,247	38.30	40,987
1970 (prel.).....	275	225	25,875	393	23.0	95	4,513	47.50	30,388
<b>New Mexico:</b>									
1968.....	151	176	21,656	557	24.7	74	3,915	52.90	25,571
1969.....	146	157	19,886	517	25.3	64	2,912	45.50	22,798
1970 (prel.).....	142	135	17,184	455	25.5	54	3,410	62.00	20,594
<b>North Carolina:</b>									
1968.....	189	123	14,126	310	23.0	51	2,514	49.30	16,640
1969.....	166	100	10,836	287	21.8	41	1,669	40.70	12,505
1970 (prel.).....	165	160	18,000	405	22.5	65	3,366	51.00	21,366
<b>Oklahoma:</b>									
1968.....	380	264	24,897	333	18.8	112	5,499	49.10	30,366
1969.....	405	279	25,380	288	18.9	113	5,300	45.30	31,680
1970 (prel.).....	450	185	18,963	197	20.5	79	4,524	58.00	23,487
<b>South Carolina:</b>									
1968.....	340	251	30,659	352	24.4	105	5,250	50.00	35,909
1969.....	287	205	21,881	342	21.3	85	3,434	40.40	25,315
1970 (prel.).....	290	215	24,188	356	22.5	87	4,495	50.50	28,683
<b>Tennessee:</b>									
1968.....	360	325	39,149	432	24.1	137	6,823	49.80	45,972
1969.....	400	422	45,047	505	21.3	166	7,058	40.10	52,105
1970 (prel.).....	390	390	43,875	480	22.8	160	8,039	53.00	52,514
<b>Texas:</b>									
1968.....	4,125	3,525	344,142	410	19.5	1,490	75,245	50.50	419,387
1969.....	4,675	2,862	267,207	294	18.7	1,190	49,951	41.80	317,158
1970 (prel.).....	4,851	3,247	351,440	321	21.7	1,269	72,546	53.50	423,986
<b>Other States:</b>									
1968.....	25	22	2,630	422	24.1	9	450	49.10	3,089
1969.....	26	21	2,242	390	21.5	9	348	39.80	2,590
1970 (prel.).....	22	19	2,108	400	22.7	7	396	50.60	2,504

<sup>1</sup> Includes an allowance for unredeemed loans. For 1970, average price to Apr. 1, 1971.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production and Crop Values*.

# **No. 977. TOBACCO—PRODUCTION, DOMESTIC DISAPPEARANCE, EXPORTS, IMPORTS, AND STOCKS: 1941 TO 1970**

(In millions of pounds. Flue-cured and cigar wrapper, crop year, July-June; all other types, October-September. Excludes Alaska, Hawaii, and Puerto Rico, except for exports and imports. Farm-sales-weight basis)

ITEM	1941-1945, avg.	1946-1950, avg.	1951-1955, avg.	1956-1960, avg.	1961-1965, avg.	1965	1968	1969	1970
Production.....	1,604	2,080	2,217	1,864	2,161	1,855	1,710	1,804	1,906
Domestic disappearance <sup>1</sup> .....	1,283	1,411	1,471	1,408	1,468	1,462	1,351	1,328	(NA)
Exports <sup>2</sup> .....	432	531	552	538	563	588	623	640	(NA)
Imports <sup>2</sup> .....	75	87	106	139	170	183	221	210	219
Stocks, end of marketing year.....	2,543	3,014	3,763	3,976	4,182	4,351	3,824	3,659	(NA)

NA Not available. <sup>1</sup> U.S. tobacco only. <sup>2</sup> Source: Dept. of Commerce, Bureau of the Census. Calendar year, declared weight; includes stems, trimmings, and scrap.

Source: Dept. of Agriculture, Economic Research Service; *The Tobacco Situation*.

# **No. 978. TOBACCO—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1968 TO 1970**

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (pounds)			PRODUCTION (mil. lb.)			PRICE <sup>1</sup> (ct. per lb.)		FARM VALUE (mil. dol.)	
	1968	1969	1970	1968	1969	1970	1968	1969	1970	1969	1970	1969	1970
<b>Total.....</b>	<b>880</b>	<b>920</b>	<b>899</b>	<b>1,943</b>	<b>1,961</b>	<b>2,120</b>	<b>1,710</b>	<b>1,804</b>	<b>1,906</b>	<b>71.8</b>	<b>72.8</b>	<b>1,296</b>	<b>1,389</b>
Mass.....	3	2	2	1,327	1,371	1,468	4	3	8	333.7	330.9	11	12
Conn.....	7	6	6	1,301	1,295	1,433	9	7	8	320.7	314.5	23	27
Pa.....	21	20	19	1,775	1,875	1,800	37	38	34	30.0	31.0	11	10
Ohio.....	9	9	9	1,987	2,406	2,370	19	22	20	64.7	66.9	14	14
Ind.....	6	6	6	2,285	2,500	2,600	13	15	14	70.4	71.4	10	10
Md.....	30	28	26	1,055	1,000	1,040	32	28	27	75.1	79.7	21	22
Va.....	67	73	68	1,692	1,844	1,845	113	135	126	70.2	69.5	95	87
N.C.....	358	386	390	1,862	1,853	2,089	667	716	815	72.1	71.7	516	585
S.C.....	63	69	68	1,055	1,095	2,090	122	137	141	72.8	71.9	99	101
Ga.....	57	61	67	1,678	1,615	1,999	108	98	133	77.3	76.7	76	102
Fla.....	15	16	15	1,730	1,668	1,928	26	26	29	121.2	104.7	32	30
Ky.....	173	173	158	2,400	2,519	2,611	414	437	411	68.0	70.7	297	291
Tenn.....	59	69	64	2,072	2,044	2,191	122	121	118	65.0	69.6	78	80
Other.....	13	12	13	1,895	1,864	1,955	24	23	26	64.9	68.2	12	16

<sup>1</sup> Season average price received by farmers. State prices weighted by sales to obtain U.S. prices.

<sup>2</sup> Average of auction sales through May 5, 1971.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production and Crop Values*.

# **No. 979. SUGAR, BEET AND CANE—QUOTAS AND SUPPLY: 1950 TO 1970**

(In thousands of short tons, except per capita consumption in pounds)

ITEM	1950	1955	1960	1965	1968	1969	1970 (prel.)
Quota charges by supplying areas <sup>1</sup> .....	8,274	8,402	9,525	9,920	10,951	10,773	11,681
United States.....	3,412	3,349	3,629	5,261	5,481	5,545	6,032
Beet.....	1,749	1,797	2,165	3,025	3,085	3,216	3,577
Mainland cane.....	518	500	619	1,099	1,204	1,169	1,308
Hawaii.....	1,145	1,052	845	1,137	1,192	1,160	1,147
Puerto Rico and Virgin Islands.....	1,064	1,090	903	834	504	342	353
Foreign areas.....	3,798	3,963	4,904	3,825	4,966	4,886	5,296
Production.....	2,466	2,386	3,076	4,152	4,395	4,300	4,710
Visible stocks, beginning of period.....	1,759	1,930	2,005	2,700	2,873	2,961	2,799
Receipts from foreign sources.....	3,783	4,027	4,885	4,027	5,130	4,886	5,296
Receipts from offshore domestic areas.....	2,173	2,155	1,748	1,972	1,699	1,500	1,500
Domestic disappearance, total.....	8,282	8,443	9,336	10,151	11,089	10,804	11,467
Per capita consumption (refined) <sup>2</sup> .....	100.6	96.3	97.6	96.4	99.3	99.9	102.2

<sup>1</sup> Sugar quotas govern the supply of sugar from all sources, foreign and domestic, available to the conterminous United States. The formulas for allocating the quotas among the supplying areas are established by Congress: the size of the quotas is determined by the Secretary of Agriculture.

<sup>2</sup> Adjusted for changes in invisible stocks (estimated) held by manufacturers, wholesalers, and retailers.

Source: Dept. of Agriculture, Statistical Reporting Service, in annual report, *Agricultural Statistics*; and Agricultural Stabilization and Conservation Service, monthly report, *Sugar Reports*.

## No. 980. SUGAR, BEET AND CANE—U.S. AND WORLD PRODUCTION: 1945 TO 1970

[In thousands of short tons, raw value. Covers centrifugal only]

YEARLY AVERAGE OR CROP YEAR	Total	UNITED STATES			Puerto Rico and Virgin Islands, cane	WORLD	
		Beet	Cane			Total	Percent U.S.
			La. and Fla.	Hawaii			
1945-1949.....	3,950	1,515	455	833	1,147	27,496	14.4
1950-1954.....	4,624	1,784	566	1,031	1,243	39,141	11.8
1955-1959.....	4,720	2,088	572	1,013	1,047	49,673	9.5
1960-1964.....	5,810	2,777	935	1,086	1,012	60,742	9.6
1960.....	5,133	2,450	630	936	1,117	60,050	8.5
1965.....	6,103	2,894	1,104	1,218	887	69,293	8.8
1968.....	6,396	3,467	1,214	1,232	483	75,446	8.5
1969.....	6,044	3,330	1,072	1,182	460	79,671	7.6
1970 (prel.).....	6,199	3,318	1,244	1,162	475	79,164	7.8

Source: Dept. of Agriculture, Statistical Reporting Service, in annual report, *Agricultural Statistics*; and Agricultural Stabilization and Conservation Service, monthly report, *Sugar Reports*.

## No. 981. SUGARCANE, CANE SUGAR, AND MOLASSES—ACREAGE, PRODUCTION, AND VALUE: 1945 TO 1970

[Prior to 1960 and as noted, excludes Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 295-297]

YEAR	SUGARCANE FOR SUGAR AND SEED					SUGAR PRODUCED			MOLASSES MADE	
	Acreage harvested	Yield per acre <sup>1</sup>	Production	Price per ton <sup>2,3</sup>	Farm value <sup>3</sup>	Raw value <sup>4</sup>	Equivalent refined <sup>5</sup>	Per ton of cane, raw value <sup>4</sup>	Total, excl. sirup	Blackstrap (80° Brix)
	1,000 acres	Short tons	1,000 short tons	Dollars	Mil. dol.	1,000 short tons	1,000 short tons	Pounds	Mil. gallons	Mil. gallons
1945.....	285	23.5	6,707	5.67	38	475	443	152	50	35
1950.....	334	20.8	6,944	7.80	54	564	527	174	49	45
1955.....	284	25.6	7,248	6.50	47	574	536	188	53	49
1960.....	437	37.7	16,468	7.41	57	1,566	1,464	199	101	98
1965.....	617	38.4	23,663	7.90	110	2,322	2,170	204	146	143
1968.....	606	41.0	24,825	9.29	124	2,447	2,286	204	153	150
1969.....	536	42.2	22,615	9.04	115	2,254	2,107	208	134	132
1970.....	586	43.1	25,230	10.34	141	2,412	2,265	199	148	145

<sup>1</sup> Growth of 9 months in Louisiana and 12 months in Florida.

<sup>2</sup> Season average price received by farmers. Prices exclude Government payments under the Sugar Act, except in 1945. <sup>3</sup> Excludes Hawaii. <sup>4</sup> Raw value equals 96° raw sugar as defined in Sugar Act of 1948.

<sup>5</sup> Calculated on basis of 100 pounds of raw sugar required to produce 93.46 pounds of refined sugar.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production* and annual report, *Agricultural Statistics*.

## No. 982. SUGAR BEETS—ACREAGE, PRODUCTION, PRICES, AND VALUE, BY STATES: 1968 TO 1970

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (short tons)			PRODUCTION (1,000 tons)			PRICE <sup>1</sup> (dol. per ton)		FARM VALUE (mil. dol.)	
	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1968	1969	1970 (prel.)	1969	1970 (prel.)	1969	1970 (prel.)
Total <sup>2</sup>	1,410	1,541	1,415	18.0	18.0	18.4	25,363	27,736	25,975	12.72	14.90	353	387
Calif.....	254	305	321	23.9	19.8	24.5	6,081	6,046	7,856	13.50	(NA)	82	(NA)
Calo.....	168	181	146	15.5	17.8	16.5	2,611	3,224	2,416	8.70	(NA)	28	(NA)
Idaho.....	182	186	170	18.0	18.2	18.2	3,288	3,373	3,087	14.50	(NA)	49	(NA)
Mich.....	90	93	92	19.0	16.2	20.7	1,708	1,504	1,894	13.10	(NA)	20	(NA)
Minn.....	161	164	147	13.5	14.3	12.3	2,177	2,362	1,808	13.90	(NA)	33	(NA)
Mont.....	66	68	58	15.7	17.9	16.0	1,034	1,206	922	13.90	(NA)	17	(NA)
Nebr.....	72	87	79	17.0	19.2	17.5	1,222	1,673	1,376	11.60	(NA)	19	(NA)
N. Dak.....	87	95	92	12.9	14.0	11.6	1,125	1,331	1,067	13.90	(NA)	19	(NA)
Wash.....	55	64	63	25.2	26.4	20.0	1,383	1,692	1,260	15.00	(NA)	25	(NA)
Wyo.....	62	67	59	16.2	18.6	16.2	1,003	1,254	956	13.70	(NA)	17	(NA)

NA Not available. <sup>1</sup> See footnote 2, table 981. <sup>2</sup> Includes data for States not shown separately.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production* and *Crop Values*.

# No. 983. COMMERCIAL VEGETABLE AND OTHER SPECIFIED CROPS—ACREAGE, PRODUCTION, AND VALUE, 1969 AND 1970, AND LEADING STATES, 1970

[Relates to commercial production for fresh market and processing combined. Includes market garden areas but excludes minor producing acreage in minor producing States. Excludes production for home use in farm and nonfarm gardens. Value is for season or crop year and should not be confused with calendar-year income]

CROP	ACREAGE <sup>1</sup> (1,000 acres)			PRODUCTION <sup>2</sup> (1,000 short tons)			VALUE <sup>3</sup> (\$1,000)	
	1969	1970 (prel.)		1969	1970 (prel.)		1969	1970 (prel.)
		Total	Leading States		Total	Leading States		
Artichokes.....	10.1	11.0	Calif.....	32.9	33.6	Calif.....	6,946	8,920
Asparagus.....	123.8	120.0	Calif., N.J.....	145.9	139.1	Calif., Wash.....	57,476	55,445
Beans, lima <sup>4</sup> .....	83.2	69.6	Calif., Del.....	98.7	77.4	Calif., Del.....	17,659	14,198
Beans, snap.....	328.0	314.6	N.Y., Wis.....	734.9	725.0	Oreg., N.Y.....	99,595	94,868
Beets.....	17.9	15.1	Wis., N.Y.....	219.6	207.1	N.Y., Wis.....	4,831	4,412
Broccoli.....	37.1	40.4	Calif., Oreg.....	125.5	151.5	Calif., Oreg.....	25,540	28,973
Brussels sprouts.....	6.5	6.0	Calif., N.Y.....	29.0	28.1	Calif., N.Y.....	6,673	7,147
Cabbage.....	111.8	107.9	Tex., Fla.....	1,146.1	1,187.2	N.Y., Tex.....	67,501	81,973
Cantaloupes.....	126.2	111.7	Calif., Tex.....	688.0	670.9	Calif., Tex.....	77,282	82,700
Carrots.....	80.4	78.5	Tex., Calif.....	936.6	901.4	Calif., Tex.....	82,967	66,635
Cauliflower.....	25.6	24.1	Calif., N.Y.....	122.0	118.0	Calif., N.Y.....	23,829	23,045
Celery.....	32.7	31.9	Calif., Fla.....	775.5	751.0	Calif., Fla.....	84,841	35,620
Corn, sweet.....	634.1	595.1	Wis., Minn.....	2,737.5	2,511.6	Minn., Wis.....	115,516	112,004
Cucumbers.....	179.4	185.3	N.C., Mich.....	724.3	825.5	Mich., N.C.....	77,891	85,942
Eggplant.....	3.8	3.4	Fla., N.J.....	25.7	24.4	Fla., N.J.....	4,367	3,936
Escarole.....	9.5	8.7	Fla., N.J.....	55.1	55.1	Fla., N.J.....	8,249	7,850
Garlic.....	7.3	5.6	Calif.....	43.8	30.4	Calif.....	7,397	6,844
Honeydew melons.....	13.8	13.2	Calif., Tex.....	98.5	96.6	Calif., Tex.....	11,544	10,925
Lettuce.....	227.8	234.4	Calif., Ariz.....	2,227.6	2,308.3	Calif., Ariz.....	241,059	223,276
Mint for oil.....	104.9	104.7	Oreg., Wash.....	3.2	3.4	Oreg., Wash.....	30,636	26,169
Onions.....	100.8	101.4	Tex., Calif.....	1,415.9	1,520.5	Calif., N.Y.....	107,841	101,010
Peas, green <sup>5</sup> .....	404.2	383.9	Wis., Minn.....	524.4	476.3	Wis., Wash.....	55,699	51,839
Peppers, green.....	53.1	48.8	Fla., N.C.....	218.4	184.0	Calif., Fla.....	52,649	44,651
Spinach.....	35.5	37.1	Calif., Tex.....	168.8	184.0	Calif., Tex.....	12,972	13,534
Strawberries.....	57.1	53.4	Oreg., Calif.....	242.9	247.4	Calif., Oreg.....	109,662	106,264
Tomatoes.....	417.6	393.9	Calif., Fla.....	5,868.2	5,933.3	Calif., Ohio.....	395,137	376,594
Watermelons.....	276.9	270.0	Tex., Fla.....	1,315.4	1,359.3	Fla., Tex.....	54,014	50,303

<sup>1</sup> Acreage of crops for harvest for fresh market, including any partially harvested or not harvested because of low prices or other economic factors, plus acreage harvested for processing.

<sup>2</sup> Includes some quantities not marketed and excluded in computing value.

<sup>3</sup> Fresh market vegetables valued at f.o.b. shipping point, except garlic which is field run basis at packinghouse door. Processing vegetables are equivalent returns at packinghouse door.

<sup>4</sup> Shelled basis; 2 pounds of lima beans in the shell produce approximately 1 pound of shelled beans.

<sup>5</sup> Shelled basis; 2½ pounds of peas in the shell produce approximately 1 pound of shelled peas.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summary, *Commercial Vegetables*.

## No. 984. FRUITS—PRODUCTION AND VALUE, 1969 AND 1970, AND LEADING STATES, 1970

[See *Historical Statistics, Colonial Times to 1957*, series K 316-328, for production and prices]

CROP	Unit	PRODUCTION <sup>1</sup> (1,000 units)			FARM VALUE (mil. dol.)	
		1969	1970 (prel.)		1969	1970 (prel.)
			Total	Leading States		
Apples (34 States) <sup>2</sup> .....	Pounds.....	6,751,800	6,349,100	Wash., N.Y.....	274	297
Peaches.....	Pounds.....	3,665,400	3,036,500	Calif., S.C.....	184	177
Pears.....	Tons.....	712	641	Calif., Wash.....	72	70
Grapes.....	Tons.....	3,898	3,102	Calif.....	284	286
Cherries, sweet.....	Tons.....	127	117	Oreg., Calif.....	43	43
Cherries, tart.....	Tons.....	152	122	Mich.....	24	18
Plums.....	Tons.....	67	123	Calif.....	16	20
Prunes (dried basis).....	Tons.....	130	200	Calif.....	37	57
Oranges and tangerines (4 States).....	Boxes <sup>3</sup> .....	188,090	189,640	Fla.....	465	410
Grapefruit (4 States).....	Boxes <sup>3</sup> .....	54,170	53,910	Fla.....	91	118
Lemons (2 States) <sup>4</sup> .....	Boxes <sup>5</sup> .....	15,810	15,620	Calif.....	70	74

<sup>1</sup> Includes some quantities not marketed on account of economic conditions.

<sup>2</sup> Includes some quantities not marketed on account of economic conditions.

<sup>3</sup> In California and Arizona, approximate average for oranges and tangerines is 75 pounds; in other States, oranges 90 pounds; and Florida tangerines, 95 pounds.

<sup>4</sup> Approximate average, net weight, is 65 pounds in Arizona and California, 85 in Florida, and 80 in Texas.

<sup>5</sup> Includes estimates for Arizona. <sup>6</sup> About 76 pounds net.

Source: Dept. of Agriculture, Statistical Reporting Service; annual summaries, *Crop Production and Crop Values*.

## No. 985. CANNED FOODS—PRODUCTION: 1950 TO 1970

[In millions of standard cases of 24 No. 303 cans, except as noted. Excludes Alaska and Hawaii, except as noted.  
See *Historical Statistics, Colonial Times to 1887*, series P 190-191, for canned corn and tomatoes]

PRODUCT	1950	1955	1960	1964	1965	1966	1967	1968	1969	1970
<b>Fruits<sup>1</sup></b>	75.4	91.4	101.5	120.3	106.9	115.6	96.3	116.7	123.4	(NA)
Apples	4.9	<sup>2</sup> 3.3	<sup>2</sup> 3.1	<sup>2</sup> 3.6	<sup>2</sup> 4.1	<sup>2</sup> 3.2	<sup>2</sup> 3.4	<sup>2</sup> 3.3	<sup>2</sup> 3.1	<sup>2</sup> 2.3
Applesauce	8.3	<sup>2</sup> 8.3	<sup>2</sup> 11.8	<sup>2</sup> 15.3	<sup>2</sup> 15.9	<sup>2</sup> 11.5	<sup>2</sup> 13.9	<sup>2</sup> 14.1	<sup>2</sup> 16.7	<sup>2</sup> 14.1
Apricots	3.7	5.9	6.1	5.2	5.1	5.0	4.2	4.6	5.5	3.8
Berries <sup>1</sup>	1.3	1.1	0.8	0.7	0.7	0.9	1.0	0.5	0.5	0.4
Cherries, red, pitted	3.8	3.5	1.6	3.6	2.4	1.0	0.8	1.1	1.5	1.0
Cherries, sweet	0.7	1.4	0.6	1.0	0.7	0.6	0.8	0.6	0.9	0.7
Citrus salad	0.6	<sup>2</sup> 0.5	<sup>2</sup> 0.2	<sup>2</sup> 0.2	<sup>2</sup> 0.2	<sup>2</sup> 0.3	0.2	0.2	0.2	(NA)
Cranberry sauce <sup>1</sup>	2.5	3.0	2.2	3.1	3.4	3.5	3.5	3.8	3.5	3.9
Figs <sup>4</sup>	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.3	0.4
Fruit cocktail <sup>4</sup>	7.5	9.8	12.8	16.2	14.5	15.8	13.4	16.0	16.7	13.1
Fruit salad <sup>4</sup>	0.6	0.8	0.8	0.8	0.7	0.8	0.6	0.8	0.8	0.7
Grapefruit sections <sup>1</sup>	3.2	3.3	3.0	2.5	2.8	3.3	2.4	2.3	2.3	(NA)
Mixed fruits <sup>4</sup>	0.1	0.2	0.4	0.6	0.5	0.5	0.3	0.5	0.7	0.5
Olives <sup>24</sup>	1.8	1.8	2.8	2.4	2.5	2.9	0.9	<sup>4</sup> 4.6	<sup>8</sup> 3.9	<sup>8</sup> 3.0
Peaches	16.8	23.1	30.8	37.8	30.0	36.7	26.8	35.9	37.2	29.6
Pears	6.4	8.3	8.5	11.4	6.4	11.0	5.8	10.3	10.6	8.6
Pineapple <sup>26</sup>	11.7	14.7	15.0	13.6	15.0	16.7	16.4	16.5	16.9	(NA)
Plums <sup>7</sup>	1.0	1.7	0.4	1.5	1.7	1.5	1.9	0.7	2.2	0.8
<b>Juices:<sup>18</sup></b>										
Apple	3.4	3.4	6.2	9.6	9.6	8.9	8.7	9.4	13.5	14.5
Grapefruit	18.3	13.8	11.0	10.9	13.8	21.0	15.8	20.5	22.1	(NA)
Orange	22.5	16.6	11.5	10.8	12.1	16.3	10.4	13.5	14.3	(NA)
Orange-grapefruit	0.4	5.4	3.2	2.5	2.9	3.7	2.2	2.6	2.4	(NA)
Pineapple <sup>6</sup>	15.7	16.2	14.4	13.8	15.4	15.0	15.1	14.0	15.0	(NA)
Tomato	26.2	26.9	33.0	35.3	32.8	31.9	35.1	<sup>9</sup> 32.9	<sup>9</sup> 27.6	<sup>9</sup> 29.5
<b>Seasonal vegetables</b>	151.5	167.0	177.9	192.0	207.5	207.0	235.7	254.2	215.1	(NA)
Asparagus	5.5	7.6	8.0	8.2	7.2	7.9	6.6	6.9	6.8	6.0
Beans, green and wax	25.6	28.5	33.2	37.4	45.6	40.5	53.2	51.8	47.3	47.6
Beans, lima	3.9	3.4	3.8	2.2	3.0	3.5	4.0	3.8	3.6	2.8
Beets <sup>7</sup>	9.9	9.2	8.8	10.7	10.0	11.4	11.8	14.6	11.3	(NA)
Carrots <sup>7</sup>	2.3	2.2	5.0	4.5	4.5	7.1	5.5	5.1	5.5	(NA)
Corn, sweet	22.3	29.4	35.3	37.6	39.1	45.5	49.3	59.3	49.4	47.0
Greens, leafy	2.4	3.1	2.9	2.9	2.7	2.9	3.6	2.8	3.4	3.5
Mixed vegetables	2.9	2.0	2.6	3.1	3.3	3.4	3.6	3.8	4.4	4.4
Peas, field	2.1	2.2	2.1	1.8	1.8	2.5	2.7	2.4	2.9	2.4
Peas, green	35.5	33.4	28.7	30.0	37.6	31.9	37.7	36.2	32.1	28.7
Pimientos	1.5	1.2	0.9	0.7	0.8	0.7	0.8	0.8	0.9	0.6
Pumpkin and squash	2.7	5.1	5.0	3.8	3.9	4.6	4.6	4.6	5.2	4.0
Spinach <sup>1</sup>	6.8	7.3	7.8	7.6	6.4	7.0	7.4	8.0	6.6	7.3
Tomatoes	25.8	30.2	31.0	36.4	36.0	32.7	39.1	48.4	32.0	39.0
Other vegetable packs <sup>10</sup>	2.3	2.2	2.8	5.1	5.5	5.4	5.8	5.7	3.7	3.2
<b>Nonseasonal vegetables:</b>										
Sauerkraut <sup>1</sup>	10.9	9.3	9.8	9.0	10.8	10.0	11.4	10.8	10.6	(NA)
Sweet potatoes	5.2	6.2	6.9	7.9	11.1	10.0	9.8	10.8	12.5	9.0
White potatoes	1.9	3.3	4.2	3.8	5.0	5.3	4.8	5.7	6.1	7.3
Catsup and chili sauce	14.2	22.4	30.0	34.0	35.6	37.4	39.4	(NA)	(NA)	(NA)
Seafood, salmon <sup>11</sup>	(NA)	(NA)	(NA)	3.9	3.5	4.3	2.1	3.4	2.6	3.0

NA Not available. <sup>1</sup> Basis 24 No. 2½ cans. <sup>2</sup> Pack beginning in year shown.

<sup>3</sup> Blackberries, blueberries, boysenberries, gooseberries, loganberries, raspberries, and strawberries.

<sup>4</sup> California only. <sup>5</sup> Estimated by Calif. Olive Association.

<sup>6</sup> Hawaiian pack plus receipts from Puerto Rico. Beginning 1955, represents U.S. pack and foreign operations.

<sup>7</sup> Beginning 1965, purple plums only. <sup>8</sup> Basis 24 No. 2 cans.

<sup>9</sup> Excludes combination vegetable-tomato juices. <sup>10</sup> Succotash, carrots and peas, okra, okra and tomatoes; and for 1964 through 1969, mushrooms. <sup>11</sup> Basis 48/1 lb. cans. Includes Alaska.

Source: National Canners Association, Washington, D.C.; *Canned Food Pack Statistics*.

## No. 986. PRINCIPAL FROZEN FOODS—PRODUCTION: 1950 TO 1970

[In millions of pounds]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
<b>Total</b>	2,972	7,307	10,868	14,144	16,141	15,335	15,887	11,652
<b>Vegetables:</b>								
Total, excluding potatoes	558	1,011	1,407	1,800	2,017	2,122	2,048	2,404
Potato products	29	129	551	1,219	1,491	1,736	1,867	1,912
Fruits and berries, excl. citrus juices	472	660	660	653	642	728	678	621
Juices and drinks <sup>2</sup>	1,212	3,429	4,556	5,514	6,657	5,259	5,176	(NA)
Meat	35	250	310	450	420	430	460	470
Poultry	411	1,000	2,000	2,231	2,154	1,947	1,942	2,159
Prepared foods	75	625	1,100	1,875	2,325	2,684	3,200	3,600
Seafoods	180	203	284	402	434	429	486	486

NA Not available. <sup>1</sup> Excludes juices and drinks.

<sup>2</sup> Includes single strength drinks, and juices and concentrated juices and drinks reconstituted.

Source: American Frozen Food Institute, Washington, D.C.; *Frozen Food Pack Statistics*. (Copyright.) Based on data from Dept. of Agriculture, Statistical Reporting Service and Dept. of Commerce, National Oceanic and Atmospheric Administration.



## No. 987. LIVESTOCK—NUMBER ON FARMS AND VALUE: 1940 TO 1971

[Alaska and Hawaii excluded from census data prior to 1959 and from annual data prior to 1961. See also *Historical Statistics, Colonial Times to 1957*, series K 195-204]

YEAR	ALL CATTLE			HOGS AND PIGS			STOCK SHEEP		
	Number (1,000 head)	Value		Number (1,000 head)	Value		Number (1,000 head)	Value	
		Total (mil. dol.)	Per head		Total (mil. dol.)	Per head		Total (mil. dol.)	Per head
CENSUS DATA <sup>1</sup>									
1940 (Apr. 1).....	60,675	2,598	\$42.82	34,087	285	\$8.36	40,129	240	\$5.99
1945 (Jan. 1).....	82,654	5,603	67.78	46,735	988	21.14	41,224	350	8.71
1950 (Apr. 1).....	76,762	9,136	119.02	55,722	1,098	19.70	31,387	555	17.69
1954 (Oct.-Nov.).....	95,027	8,233	86.64	57,093	1,891	33.13	31,619	472	14.93
1959 (Oct. 1).....	92,534	12,511	135.20	67,949	1,371	20.18	33,945	556	16.38
1964 (Dec.).....	105,558	11,946	113.17	54,080	1,324	24.48	25,472	409	16.06
ANNUAL DATA (JAN. 1) <sup>2</sup>									
1940.....	68,309	2,770	40.60	61,165	476	7.78	46,266	294	6.35
1945.....	85,573	5,722	66.90	59,373	1,225	20.60	39,609	335	8.45
1950.....	77,963	9,630	124.00	58,937	1,600	27.10	26,182	466	17.80
1955.....	96,592	8,517	88.20	50,474	1,542	30.60	27,137	404	14.90
1960.....	96,236	13,150	137.00	59,026	1,092	18.50	28,849	477	16.50
1965.....	109,000	12,360	113.00	50,792	1,244	24.50	21,843	346	15.80
1969.....	109,885	17,394	158.00	60,632	1,852	30.50	18,332	403	22.00
1970.....	112,303	20,171	180.00	56,655	2,209	39.00	17,411	431	24.70
1971 (prel.).....	114,568	21,146	185.00	67,540	1,579	23.40	16,937	398	23.50

<sup>1</sup> For 1940, animals over 3 months, except hogs over 4 months and sheep over 6 months; thereafter, animals of all ages. <sup>2</sup> Not available for Florida, Georgia, and South Carolina.

<sup>3</sup> Beginning 1969, data for hogs and pigs as of Dec. 1, preceding year.

Source: Census data—Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1964*, Vol. II. Annual data—Dept. of Agriculture, Statistical Reporting Service; in annual report, *Agricultural Statistics*, and annual livestock summaries.

## No. 988. MEATS AND LARD—SLAUGHTERING, PRODUCTION, AND TRADE: 1950 TO 1970

[Quantities represent.....excludes Alaska and Hawaii except for exports and imports. in slaughter. Excludes edible byproducts. Excludes USDA and other claimants, military civilian feeding, and voluntary relief feeding. See *Historical Statistics, Colonial Times to 1957*, series K 214-225]

ITEM	1950	1955	1960	1965	1968	1969	1970
<b>All meats:</b>							
Animals slaughtered, total.....1,000 head..	121,622	137,055	135,034	130,653	139,547	136,465	137,322
Under Federal inspection.....percent.....	72	75	78	82	84	87	89
Production, total.....mil. lb.....	22,075	26,895	28,203	31,502	35,237	35,295	36,217
Federally inspected.....percent.....	73	75	78	82	86	88	89
Exports of U.S. production.....mil. lb.....	135	189	197	231	288	329	288
Imports for consumption.....mil. lb.....	384	406	1,048	1,347	2,081	2,202	2,387
<b>Beef:</b>							
Animals slaughtered, total.....1,000 head..	18,614	26,587	26,029	33,171	35,414	35,574	35,354
Under Federal inspection.....percent.....	70	72	75	80	84	86	87
Production, total.....mil. lb.....	9,534	13,569	14,728	18,699	20,846	21,126	21,651
Federally inspected.....percent.....	74	75	78	82	86	87	88
Exports of U.S. production.....mil. lb.....	21	50	55	91	88	82	101
Imports for consumption.....mil. lb.....	338	229	700	923	1,500	1,615	1,792
<b>Veal:</b>							
Animals slaughtered, total.....1,000 head..	10,501	12,864	8,615	7,788	5,613	5,010	4,204
Under Federal inspection.....percent.....	56	58	61	65	69	73	72
Production, total.....mil. lb.....	1,230	1,578	1,109	1,020	734	673	588
Federally inspected.....percent.....	54	57	56	50	57	59	57
<b>Lamb and mutton:</b>							
Animals slaughtered, total.....1,000 head..	13,244	16,553	16,240	13,300	12,119	10,923	10,802
Under Federal inspection.....percent.....	80	87	86	88	90	92	93
Production, total.....mil. lb.....	597	758	768	651	602	550	551
Federally inspected.....percent.....	89	87	87	88	91	93	93
<b>Pork:</b>							
Animals slaughtered, total.....1,000 head..	79,263	81,051	84,150	76,394	86,401	84,958	86,962
Under Federal inspection.....percent.....	72	73	79	83	87	89	90
Production, total.....mil. lb.....	10,714	10,990	11,598	11,132	13,055	12,946	13,427
Federally inspected.....percent.....	73	76	79	84	87	89	90

<sup>1</sup> Comprises weight of dressed hog carcass less head bones and carcass fat rendered into lard.

Source: Dept. of Agriculture, Economic Research Service; *The Livestock and Meat Situation and The National Food Situation*.

## No. 989. LIVESTOCK ON FARMS—NUMBER, BY STATES: 1964 AND 1971

[In thousands. For composition of regions, see fig. I, p. xii]

STATE	ALL CATTLE		MILK COWS		SHEEP AND LAMBS		HOGS AND PIGS	
	1964 (Nov.- Dec.)	1971 (Jan. 1)	1964 (Nov.- Dec.)	1971 <sup>1</sup> (Jan. 1)	1964 (Nov.- Dec.)	1971 (Jan. 1)	1964 (Nov.- Dec.)	1970 (Dec. 1)
United States.....	105,558	114,568	14,623	12,445	25,472	19,560	54,080	67,540
North.....	52,685	53,704	9,860	8,040	8,592	5,730	44,863	52,679
South.....	33,359	38,907	3,191	2,784	5,360	4,469	8,166	13,426
West.....	19,514	21,897	1,572	1,621	11,520	9,361	1,061	1,435
New England.....	874	808	511	440	53	41	139	136
Maine.....	158	141	76	66	23	15	13	10
New Hampshire.....	82	71	44	36	6	5	13	12
Vermont.....	368	351	230	205	8	6	8	6
Massachusetts.....	127	114	79	63	9	8	82	89
Rhode Island.....	16	12	10	7	2	2	9	10
Connecticut.....	123	110	72	63	5	5	14	9
Middle Atlantic.....	3,901	3,736	2,022	1,791	330	266	667	896
New York.....	1,959	1,848	1,134	1,018	130	98	95	101
New Jersey.....	153	125	97	68	10	8	122	121
Pennsylvania.....	1,789	1,763	791	705	190	160	460	674
East North Central.....	14,077	13,067	3,951	3,292	2,286	1,663	16,770	18,186
Ohio.....	2,164	2,200	544	440	838	693	2,513	2,838
Indiana.....	2,063	1,937	328	234	361	251	4,497	5,129
Illinois.....	3,761	3,245	422	301	561	317	7,300	7,468
Michigan.....	1,725	1,527	574	462	323	251	716	819
Wisconsin.....	4,384	4,158	2,083	1,846	203	151	1,735	1,932
West North Central.....	33,834	36,153	3,377	2,517	5,924	3,760	27,288	33,461
Minnesota.....	4,281	3,998	1,237	981	774	504	3,396	3,692
Iowa.....	7,285	7,403	730	486	1,365	797	13,674	16,322
Missouri.....	4,522	4,989	461	351	1,447	272	3,854	5,120
North Dakota.....	2,465	2,190	229	137	597	368	342	425
South Dakota.....	4,144	4,498	223	177	1,600	1,121	1,776	2,000
Nebraska.....	5,987	6,457	250	187	550	370	2,982	3,691
Kansas.....	5,150	6,618	241	198	501	328	1,204	2,202
South Atlantic.....	7,276	8,029	1,127	1,050	489	382	3,733	6,263
Delaware.....	37	32	18	15	2	2	33	46
Maryland.....	415	430	175	168	23	20	151	221
Virginia.....	1,312	1,489	246	220	223	176	480	817
West Virginia.....	482	470	84	57	105	155	78	76
North Carolina.....	906	1,081	198	185	26	16	1,046	2,031
South Carolina.....	555	661	77	65	5	2	369	633
Georgia.....	1,747	2,002	153	147	8	5	1,278	2,065
Florida.....	1,822	1,864	176	193	7	6	298	374
East South Central.....	8,676	9,723	1,185	967	321	145	3,158	4,587
Kentucky.....	2,341	2,850	407	340	184	88	1,098	1,734
Tennessee.....	2,136	2,354	370	302	98	35	958	1,111
Alabama.....	1,848	1,973	160	134	12	6	721	1,110
Mississippi.....	2,351	2,537	248	191	27	16	381	632
West South Central.....	17,407	21,155	879	767	4,549	3,942	1,275	2,576
Arkansas.....	1,574	1,787	132	97	15	8	320	362
Louisiana.....	1,867	1,705	187	169	43	23	151	259
Oklahoma.....	4,200	5,085	168	146	149	122	254	506
Texas.....	9,766	12,578	392	355	4,342	3,789	620	1,419
Mountain.....	11,987	13,974	505	501	8,725	7,447	582	993
Montana.....	2,873	3,104	55	42	1,460	1,142	168	221
Idaho.....	1,603	1,735	105	159	1,007	773	106	171
Wyoming.....	1,348	1,401	23	17	2,020	1,734	30	38
Colorado.....	2,490	3,516	93	101	1,482	1,229	170	362
New Mexico.....	1,203	1,372	35	35	861	799	39	60
Arizona.....	1,104	1,289	46	52	546	506	24	79
Utah.....	748	840	75	81	1,105	1,055	38	59
Nevada.....	609	657	13	14	235	206	7	13
Pacific.....	7,525	7,923	1,066	1,120	2,795	1,914	470	442
Washington.....	1,376	1,285	192	192	211	144	98	96
Oregon.....	1,620	1,609	126	107	626	479	113	122
California.....	4,363	4,771	732	806	1,925	1,264	190	165
Alaska.....	8	9	2	2	21	27	1	1
Hawaii.....	218	249	14	13	12	--	68	58

- Represents zero. <sup>1</sup> Represents cows and heifers that have calved, kept for milk.

Source: 1964 data, Dept. of Commerce, Bureau of the Census; U.S. Census of Agriculture: 1964, Vol. II, later data, Dept. of Agriculture, Statistical Reporting Service; annual livestock summaries.

# No. 990. LIVESTOCK—LIVEWEIGHT PRODUCTION AND ANNUAL AVERAGE PRICE RECEIVED BY FARMERS: 1940 TO 1970

[Production in millions of pounds; price per 100 pounds. Prior to 1965, excludes Alaska and Hawaii, except sheep exclude Hawaii for all years. See also *Historical Statistics, Colonial Times to 1957*, series K 205-212]

YEAR	ALL CATTLE			HOGS		SHEEP		
	Production <sup>1</sup>	Price, beef	Price, calves	Production <sup>1</sup>	Price	Production <sup>1</sup>	Price, sheep	Price, lambs
1940.....	15,702	\$7.56	\$8.83	17,043	\$5.39	2,101	\$3.95	\$8.10
1950.....	21,185	23.30	26.30	20,214	18.00	1,336	11.60	25.10
1955.....	28,099	15.60	16.80	20,154	15.00	1,618	5.78	18.40
1960.....	28,796	20.40	22.90	19,203	15.30	1,628	5.60	17.90
1965.....	33,879	19.90	22.00	18,055	20.60	1,217	6.34	22.80
1966.....	35,020	22.20	26.00	19,107	22.80	1,251	6.84	23.40
1967.....	35,932	22.30	26.30	20,634	18.90	1,143	6.35	22.10
1968.....	36,368	23.40	27.60	21,102	18.50	1,130	6.55	24.40
1969.....	37,142	26.20	31.50	20,489	22.20	1,037	8.24	27.20
1970.....	39,447	27.10	34.50	21,851	22.70	1,082	7.64	26.40

<sup>1</sup> Includes adjustment for livestock shipped in and inventory changes.

Source: Dept. of Agriculture, Statistical Reporting Service; in annual reports, *Agricultural Statistics and Meat Animals—Farm Production, Disposition, and Income, by States, 1969-1970*.

## No. 991. DAIRYING—COWS AND DAIRY PRODUCTS: 1950 TO 1970

[In millions of pounds, except as indicated. Prior to 1960, excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 226-239]

ITEM	1950	1955	1960	1965	1968	1969	1970 (prel.)
Cows and heifers, 2 yrs. old and over, kept for milk, Jan. 1.....1,000 head.....	23,853	23,462	19,527	16,981	14,644	14,152	13,838
Value per head.....dollars.....	177	134	210	188	251	260	300
Milk produced on farms.....	116,602	122,945	123,109	124,173	117,234	116,345	117,436
Whole milk sold from farms <sup>1</sup> .....	78,140	93,632	106,013	114,547	110,547	110,352	111,986
Production of manufactured dairy products:							
Butter (inc. whey butter).....	1,386	1,383	1,373	1,325	1,165	1,121	
Cheese (exc. full-skim American type).....	1,101	1,367	1,478	1,755	1,938	1,986	
American <sup>2</sup> .....	807	1,008	1,007	1,170	1,284	1,276	
Swiss (including block).....	90	117	121	123	130	132	
Munster, Brie, and Limburger.....	36	49	54	56	53	56	
Cream and Neufchâtel.....	60	80	108	123	119	120	
Blue mold.....	8	10	15	10	10	21	
All Italian varieties.....	60	86	158	244	315	361	
All other varieties.....	23	19	21	24	23	24	
Cottage cheese:							
Curd, pot, and bakers <sup>3</sup> .....	323	459	594	630	640	673	
Creamed.....	352	569	770	837	868	908	
Partially creamed.....	(NA)	(NA)	29	28	35	43	(NA)
Condensed milk.....	1,057	1,078	1,273	1,442	1,366	1,380	
Evaporated milk, unskimmed, unsweetened.....	2,882	2,580	2,177	1,693	1,360	1,414	
Dry whole milk.....	125	108	98	89	80	66	
Nonfat dry milk solids <sup>3</sup> .....	899	1,386	1,844	2,013	1,621	1,456	
Dry whey.....	156	211	277	404	405	503	
Dry buttermilk.....	49	58	86	87	70	66	
Malted milk powder.....	31	34	25	22	20	19	
Ice cream of all kinds.....mil. gal.....	554	620	700	757	773	766	
Milk sherbet.....mil. gal.....	17	37	41	45	49	52	
Ice milk.....mil. gal.....	37	90	145	231	260	275	
Wholesale prices:							
Cheese, American, single daisies (Chicago).....cents per lb.....	35.5	37.3	41.4	45.0	54.8	60.3	64.9
Butter, N.Y. (Grade A).....cents per lb.....	62.2	58.2	59.9	61.0	67.8	68.5	71.7
Prices received by farmers:							
Milkfat in cream.....cents per lb.....	62.0	57.8	60.5	61.1	68.7	68.9	69.2
Whole milk:							
Wholesale, per 100 lb.....dollars.....	3.89	4.01	4.21	4.23	5.24	5.49	5.68
Retail.....cents per qt.....	18.5	20.8	21.7	22.3	24.8	25.9	27.1

NA Not available. <sup>1</sup> Comprises sales to plants and dealers, and retail sales by farmers direct to consumer.

<sup>2</sup> Includes total American, part-skim and full-skim American-type cheese.

<sup>3</sup> Includes dry skim milk for animal feed.

Source: Dept. of Agriculture, Statistical Reporting Service; annual reports, *Production of Manufactured Dairy Products and Milk Production, Disposition, and Income*; also in annual report, *Agricultural Statistics*.

## No. 992. WHOLE MILK SOLD, BY STATES: 1964 AND 1970

[Quantity in millions of pounds. For composition of regions, see fig. 1, p. xii]

STATE	Farms reporting, 1964	QUANTITY		STATE	Farms reporting, 1964	QUANTITY	
		1964	1970			1964	1970
<b>United States.....</b>	<b>544,794</b>	<b>107,422</b>	<b>111,986</b>	<b>South Atlantic—Con.</b>			
North.....	400,886	75,821	75,081	Virginia.....	10,597	1,507	1,671
South.....	110,673	17,118	20,053	West Virginia.....	3,109	371	335
West.....	33,235	14,484	16,852	North Carolina.....	7,492	1,084	1,349
<b>New England.....</b>	<b>14,450</b>	<b>4,282</b>	<b>4,238</b>	South Carolina.....	1,663	420	480
Maine.....	2,668	592	596	Georgia.....	2,537	821	1,154
New Hampshire.....	1,555	366	342	Florida.....	711	1,256	1,625
Vermont.....	6,184	1,824	1,929	<b>East South Central.....</b>	<b>61,217</b>	<b>5,283</b>	<b>5,967</b>
Massachusetts.....	2,106	737	651	Kentucky.....	27,142	1,981	2,272
Rhode Island.....	263	98	73	Tennessee.....	22,699	1,745	1,993
Connecticut.....	1,714	665	647	Alabama.....	3,615	647	736
<b>Middle Atlantic.....</b>	<b>65,166</b>	<b>17,797</b>	<b>17,852</b>	Mississippi.....	7,761	911	966
New York.....	33,226	10,143	10,214	<b>West South Central.....</b>	<b>18,366</b>	<b>4,784</b>	<b>5,786</b>
New Jersey.....	2,052	911	717	Arkansas.....	5,304	597	644
Pennsylvania.....	29,888	6,743	6,921	Louisiana.....	2,694	793	1,081
<b>East North Central.....</b>	<b>175,247</b>	<b>33,224</b>	<b>31,606</b>	Oklahoma.....	4,780	968	1,163
Ohio.....	28,820	4,557	4,252	Texas.....	5,688	2,456	2,948
Indiana.....	18,567	2,643	2,315	<b>Mountain.....</b>	<b>17,025</b>	<b>3,763</b>	<b>4,412</b>
Illinois.....	19,034	3,527	2,837	Montana.....	1,196	229	266
Michigan.....	25,874	5,013	4,452	Idaho.....	9,378	1,258	1,412
Wisconsin.....	82,952	17,484	17,750	Wyoming.....	523	122	120
<b>West North Central.....</b>	<b>146,023</b>	<b>20,518</b>	<b>21,385</b>	Colorado.....	1,668	673	810
Minnesota.....	58,015	9,203	9,342	New Mexico.....	403	255	291
Iowa.....	33,176	4,746	4,323	Arizona.....	340	479	572
Missouri.....	26,953	2,591	2,890	Utah.....	3,376	629	805
North Dakota.....	3,296	477	631	Nevada.....	141	120	136
South Dakota.....	7,640	1,027	1,335	<b>Pacific.....</b>	<b>16,210</b>	<b>10,720</b>	<b>12,440</b>
Nebraska.....	7,326	1,040	1,308	Washington.....	5,200	1,666	2,008
Kansas.....	9,617	1,425	1,556	Oregon.....	4,378	854	913
<b>South Atlantic.....</b>	<b>31,090</b>	<b>7,051</b>	<b>8,300</b>	California.....	6,472	8,048	9,366
Delaware.....	598	138	138	Alaska.....	85	22	18
Maryland.....	4,385	1,444	1,548	Hawaii.....	75	131	185

Source: 1964 data, Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1964*, Vol. II; 1970 data, Dept. of Agriculture, Statistical Reporting Service; *Milk Production, Disposition, and Income*.

## No. 993. POULTRY—NUMBER ON FARMS, VALUE, EGGS PRODUCED, AND PRICES: 1950 TO 1971

[Prior to 1965, excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 242-253]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970	1971
<b>Chickens: <sup>1</sup></b>									
Number, Jan. 1.....mil.	457	391	369	394	420	425	420	434	443
Value, total.....mil. dol.	623	411	391	462	513	486	506	584	537
Value per head.....dol.	1.36	1.05	1.06	1.17	1.20	1.14	1.21	1.35	1.20
Number produced.....mil.	535	375	260	240	265	248	253	267	(NA)
Production value.....mil. dol.	513	302	139	102	99	96	111	104	(NA)
Price per lb. <sup>2</sup> .....cents.	22.2	18.6	12.2	8.9	7.9	8.2	9.7	8.8	(NA)
<b>Eggs:</b>									
Number produced.....mil.	58,054	59,526	61,462	65,692	70,081	69,270	69,086	70,312	(NA)
Number sold.....mil.	52,188	54,015	57,818	63,636	68,473	67,932	67,914	69,250	(NA)
Price per dozen.....cents.	36.3	39.5	36.1	33.7	31.2	34.0	40.0	37.6	(NA)
Production value.....mil. dol.	1,778	1,965	1,848	1,844	1,820	1,950	2,300	2,202	(NA)
<b>Turkeys:</b>									
Number, Jan. 1.....1,000	5,124	4,917	5,633	6,100	7,817	7,301	6,604	6,789	7,462
Value, total.....mil. dol.	32	26	28	27	40	34	33	37	40
Value per head.....dol.	6.34	5.33	4.89	4.40	5.13	4.65	4.95	5.50	5.30
Number produced.....mil.	44	65	84	106	128	100	106	116	(NA)
Production value.....mil. dol.	269	329	377	424	458	413	452	495	(NA)
Price per lb. <sup>2</sup> .....cents.	32.9	30.2	25.4	22.2	19.7	20.5	22.4	22.7	(NA)

NA. Not available.

<sup>1</sup> Excludes commercial broilers.<sup>2</sup> Average annual price received by farmers.Source: Dept. of Agriculture, Statistical Reporting Service. In annual report, *Agricultural Statistics*.

## No. 994. EGGS AND POULTRY—PRODUCTION, BY STATES: 1969 AND 1970

[Eggs in millions; other figures in thousands. For composition of regions, see fig. I, p. xii]

STATE	EGGS PRODUCED		CHICKENS RAISED		BROILERS PRODUCED		CHICKS HATCHED BY COMMERCIAL HATCHERIES		TURKEYS RAISED	
	1969	1970	1969	1970	1969	1970	1969	1970	1969	1970
<b>United States</b> .....	69,086	70,312	311,995	330,156	2,788,195	2,983,811	3,554,928	3,760,311	106,235	115,723
North.....	28,528	29,243	121,566	130,862	(D)	(D)	484,729	512,686	(D)	(D)
South.....	28,068	29,389	148,222	153,166	2,449,189	2,624,149	2,848,635	3,001,164	(D)	(D)
West.....	11,590	11,680	42,207	46,128	(D)	(D)	221,664	246,461	(D)	(D)
<b>New England</b> .....	3,294	3,416	14,012	12,860	83,660	85,263	122,682	121,677	397	374
Maine.....	1,325	1,462	0,030	5,264	72,900	76,550	84,376	88,721	14	5
New Hampshire.....	345	300	1,314	1,296	482	390	17,244	16,276	81	24
Vermont.....	133	129	553	578	18	16	(1)	(1)	8	0
Massachusetts.....	524	521	2,085	1,960	3,216	1,709	17,800	16,507	221	224
Rhode Island.....	72	77	354	353	387	484	(2)	(2)	12	12
Connecticut.....	895	927	3,676	3,409	6,657	6,055	13,253	10,083	111	100
<b>Middle Atlantic</b> .....	6,478	6,404	24,628	27,293	52,386	58,654	119,492	125,231	2,451	2,681
New York.....	2,909	2,297	9,668	9,688	2,438	2,194	(D)	(D)	412	306
New Jersey.....	853	779	2,132	3,198	960	1,800	(D)	(D)	111	109
Pennsylvania.....	3,310	3,328	12,828	14,397	48,998	54,660	96,074	103,192	1,928	2,266
<b>East North Central</b> .....	9,311	9,489	41,265	44,294	(D)	(D)	124,182	126,730	(D)	(D)
Ohio.....	2,137	2,071	8,520	10,056	10,051	9,548	26,465	28,484	3,927	4,232
Indiana.....	2,789	2,880	13,611	13,475	13,934	13,315	58,500	53,800	3,622	4,970
Illinois.....	1,818	1,905	8,620	8,000	(D)	(D)	22,128	19,498	672	832
Michigan.....	1,413	1,417	5,430	5,900	777	699	(D)	(D)	887	953
Wisconsin.....	1,164	1,216	5,084	6,863	15,183	15,031	22,080	24,930	(D)	(D)
<b>West North Central</b> .....	9,445	9,934	41,661	46,415	38,301	41,287	118,373	139,048	(D)	(D)
Minnesota.....	2,139	2,247	9,535	10,870	11,872	11,635	32,272	37,890	(D)	(D)
Iowa.....	2,831	3,034	9,921	11,409	2,606	2,710	(D)	(D)	5,778	6,109
Missouri.....	1,310	1,469	8,254	9,079	21,796	24,576	27,272	36,281	7,988	7,967
North Dakota.....	253	218	1,210	1,388	-	-	(D)	(D)	899	1,113
South Dakota.....	990	1,052	4,266	4,394	-	-	(D)	(D)	1,094	1,121
Nebraska.....	1,045	1,071	4,203	4,875	1,318	1,371	9,522	9,507	711	652
Kansas.....	897	842	4,272	4,400	709	995	6,401	7,786	360	326
<b>South Atlantic</b> .....	14,570	14,777	70,882	74,800	1,173,602	1,237,941	1,404,982	1,450,362	(D)	(D)
Delaware.....	129	126	550	735	133,503	133,727	(D)	(D)	150	115
Maryland.....	342	330	1,805	1,823	174,274	185,244	(D)	(D)	95	45
Virginia.....	1,125	1,092	5,076	5,582	63,469	60,701	76,041	79,784	4,185	4,635
West Virginia.....	321	319	1,220	1,200	16,542	17,177	(D)	(D)	677	633
North Carolina.....	3,405	3,671	15,398	15,860	280,637	307,377	328,351	341,220	9,419	9,670
South Carolina.....	1,307	1,296	6,012	5,613	24,219	27,406	30,400	32,503	2,540	2,718
Georgia.....	5,426	5,306	28,961	30,696	442,221	450,614	537,821	545,454	1,635	2,283
Florida.....	2,516	2,547	11,762	13,291	38,737	46,695	96,609	107,334	(4)	(4)
<b>East South Central</b> .....	6,925	7,113	38,268	38,167	627,083	680,163	1,443,553	1,550,802	754	140
Kentucky.....	654	659	3,101	3,382	7,190	7,334	(D)	(D)	58	82
Tennessee.....	1,129	1,264	5,220	5,111	46,132	49,445	43,055	43,779	15	10
Alabama.....	2,738	2,720	16,051	15,730	352,745	375,423	395,302	419,745	640	23
Mississippi.....	2,404	2,470	13,800	13,944	221,016	217,961	232,260	260,100	41	25
<b>West South Central</b> .....	7,473	7,499	39,072	40,199	648,504	706,045	(3)	(3)	120,918	123,984
Arkansas.....	3,418	3,452	10,757	20,046	414,023	452,684	512,126	544,062	6,661	7,324
Louisiana.....	839	769	3,640	3,545	46,706	50,363	45,331	48,764	6	3
Oklahoma.....	565	569	2,881	3,174	16,601	18,955	(D)	(D)	(1)	(1)
Texas.....	2,651	2,679	12,794	13,434	170,574	184,063	203,389	218,497	7,025	8,350
<b>Mountain</b> .....	1,473	1,519	6,362	6,458	(D)	(D)	20,308	22,167	(5)	(5)
Montana.....	223	240	1,015	1,106	-	-	(D)	(D)	1,570	1,733
Idaho.....	188	189	744	620	(D)	(D)	(D)	(D)	(1)	(1)
Wyoming.....	42	40	191	168	-	-	(D)	(D)	(1)	(1)
Colorado.....	320	335	1,717	1,803	-	-	(D)	(D)	2,442	2,856
New Mexico.....	194	224	964	954	-	-	(D)	(D)	(1)	(1)
Arizona.....	227	224	845	820	(D)	(D)	(D)	(D)	(1)	(1)
Utah.....	275	263	855	970	1,652	1,206	3,267	3,097	3,209	3,946
Nevada.....	4	4	21	17	-	-	(D)	(D)	-	-
<b>Pacific</b> .....	10,117	10,161	35,855	39,670	114,414	124,519	201,356	224,294	17,364	18,378
Washington.....	1,065	1,046	4,166	4,707	21,436	20,604	33,697	33,620	574	615
Oregon.....	526	533	2,143	2,207	14,700	15,167	18,082	22,250	1,796	2,173
California.....	8,380	8,380	28,888	32,010	76,767	86,903	149,677	168,424	14,094	15,685
Alaska.....	5	5	26	26	-	-	-	-	-	-
Hawaii.....	201	197	692	720	1,521	1,845	(D)	(D)	-	-

- Represents zero. D Withheld to avoid disclosure.

1 Vermont included with New Hampshire.

2 Rhode Island included with Massachusetts. 3 Includes data for States not available separately. West South Central included in South Atlantic and East South Central to avoid disclosures.

4 Florida, Idaho, New Mexico, Oklahoma, Arizona, and Wyoming included with Montana. 5 Mountain region included in West South Central to avoid disclosures.

Source: Dept. of Agriculture, Statistical Reporting Service. In annual report, *Agricultural Statistics*.

## No. 995. FATS AND OILS—SUPPLY, DISPOSITION, AND UTILIZATION: 1940 TO 1970

[In millions of pounds. Prior to 1960, excludes Alaska and Hawaii, except that exports and imports include Alaska, Hawaii, and Puerto Rico for all years. Includes fat content of butter]

ITEM	1940	1950	1955	1960	1965	1969	1970
<b>Total supply</b> .....	<b>12,212</b>	<b>15,554</b>	<b>17,684</b>	<b>20,752</b>	<b>24,442</b>	<b>26,247</b>	<b>28,725</b>
Production from domestic materials <sup>1</sup> .....	8,350	12,056	14,304	17,353	20,532	22,431	25,024
Imports and production from imported materials.....	1,651	1,320	1,056	1,074	1,189	1,411	1,465
Stocks, Jan. 1 <sup>2</sup> .....	2,211	2,178	2,264	2,325	2,721	2,405	2,236
Disposition:							
Exports <sup>3</sup> .....	423	2,045	4,102	5,965	7,481	7,613	10,095
Domestic disappearance <sup>4</sup> .....	9,298	11,523	11,600	12,649	14,538	16,303	16,180
<b>Food uses <sup>5</sup></b> .....	<b>6,143</b>	<b>7,016</b>	<b>7,658</b>	<b>8,241</b>	<b>9,524</b>	<b>10,789</b>	<b>11,161</b>
Butter (fat content).....	1,806	1,327	1,237	1,112	1,040	908	888
Lard (direct).....	1,901	1,906	1,842	1,361	1,226	1,012	935
Shortening.....	1,186	1,705	1,988	2,302	2,768	3,505	3,599
Margarine.....	257	764	1,075	1,367	1,535	1,744	1,794
Other.....	982	1,314	1,717	2,094	2,955	3,620	3,945
<b>Nonfood uses <sup>5</sup></b> .....	<b>3,121</b>	<b>4,271</b>	<b>3,955</b>	<b>4,419</b>	<b>4,962</b>	<b>5,256</b>	<b>5,675</b>

<sup>1</sup> Includes oil equivalent of cottonseed, soybeans, peanuts, and flaxseed exported for crushing abroad.<sup>2</sup> Beginning 1950, excludes Government strategic stockpiling of coconut, palm, castor, and sperm oils.<sup>3</sup> Includes commercial exports, voluntary or civilian relief, reexports, shipments to Puerto Rico, American Samoa, Guam, and Virgin Islands. <sup>4</sup> Beginning 1950, includes Government stockpiling.<sup>5</sup> Domestic. Not adjusted for trade and change in stocks of shortening, margarine, soap, and secondaries.Source: Dept. of Agriculture, Economic Research Service, *Fats and Oils Situation*; and Statistical Reporting Service. In annual report, *Agricultural Statistics*.

## No. 996. ANIMAL AND VEGETABLE FATS AND OILS: 1967 TO 1969

[In millions of pounds. Covers factory operations only and, therefore, excludes considerable quantities of lard, tallow, and grease produced on farms and by local butcheries and small renderers; and quantities consumed and held in homes, hotels, restaurants, and bakeries, and by painters, building contractors, garages, etc. Stocks include amounts held by, and in transit to, producers, factory consumers, and public storages, but excludes amounts held in private storages by retailers, wholesalers, and jobbers]

PRODUCT	1967				1968				1969			
	Production	Consumption <sup>1</sup>		Stocks, Dec. 31	Production	Consumption <sup>1</sup>		Stocks, Dec. 31	Production	Consumption <sup>1</sup>		Stocks, Dec. 31
		In re-fining	In products			In re-fining	In products			In re-fining	In products	
<b>Vegetable oils:</b>												
Cottonseed, crude.....	1,108	1,116	(X)	84	1,115	(X)	(X)	113	1,426	1,325	(X)	111
Cottonseed, refined <sup>2</sup> .....	1,051	(X)	1,011	168	1,002	(X)	910	160	1,252	(X)	890	288
Peanut, crude.....	176	176	(X)	16	209	205	(X)	12	188	154	(X)	12
Peanut, refined <sup>2</sup> .....	165	(X)	176	7	197	(X)	206	6	149	(X)	157	6
Corn, crude.....	444	452	(NA)	21	453	464	(X)	21	466	472	(X)	36
Corn, refined <sup>2</sup> .....	418	(X)	420	17	430	(X)	440	19	438	(X)	441	19
Soybean, crude.....	6,150	5,282	(X)	406	6,150	5,487	(X)	305	6,805	6,093	(X)	275
Soybean, refined <sup>2</sup> .....	5,073	(X)	5,203	257	5,228	(X)	5,411	283	5,860	(X)	5,648	242
Coconut, crude.....	351	601	(X)	118	392	586	(X)	178	380	581	(X)	187
Coconut, refined <sup>2</sup> .....	565	(X)	766	16	552	(X)	726	19	548	(X)	733	19
Tall, crude.....	1,211	(D)	(X)	112	1,239	69	(X)	135	1,294	111	(X)	131
Tall, refined <sup>2</sup> .....	148	(X)	1,309	60	146	(X)	1,288	50	154	(X)	1,289	99
Linseed, raw and boiled.....	371	264	(X)	168	307	241	(X)	126	292	241	(X)	39
Linseed, all other.....	(NA)	(X)	210	45	(NA)	(X)	194	31	(NA)	(X)	194	30
Chinawood or tung.....	(D)	(X)	30	71	(D)	(X)	27	61	(D)	(X)	31	55
Castor <sup>2</sup> .....	(D)	(X)	122	146	(D)	(X)	133	108	(D)	(X)	152	123
Palm.....	(X)	(X)	86	17	(X)	(X)	97	29	(X)	(X)	148	35
Palm kernel, crude.....	(X)	100	(X)		(X)	90	(X)		(X)	74	(X)	
Palm kernel, refined <sup>2</sup> .....	91	(X)	87	16	79	(X)	90	24	65	(X)	70	22
<b>Animal fats and fish oils:</b>												
Lard <sup>3</sup> .....	2,045	(X)	723	151	2,029	(X)	777	94	1,881	(X)	587	70
Tallow, edible <sup>3</sup> .....	578	(X)	525	73	538	(X)	517	50	535	(X)	511	46
Tallow and grease, inedible <sup>3</sup> .....	4,753	(X)	2,402	425	4,745	(X)	2,478	359	4,655	(X)	2,595	348
Fish oils <sup>4</sup> .....	118	(X)	36	80	171	(X)	30	105	172	(X)	34	40

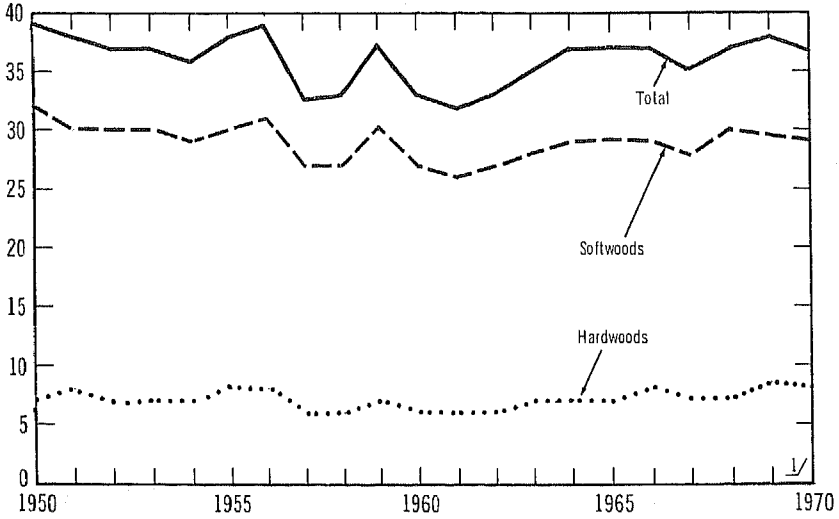
D Withheld to avoid disclosure of individual company data. NA Not available. X Not applicable.

<sup>1</sup> Includes hydrogenated fats and other fats and oils "in process"; includes crude oils used directly in products.<sup>2</sup> Production includes once-refined only (alkali or caustic washed); stocks include hydrogenated oils and other "in process" oils.<sup>3</sup> Production is quantity rendered; consumption and stocks include both rendered and refined.<sup>4</sup> Includes data for menhaden, sardine, and fish oils other than cod and cod liver.Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M 20K-13.

FIG. XXXIX. LUMBER PRODUCTION: 1950 TO 1970

[See table 1006]

BILLIONS OF BOARD FEET



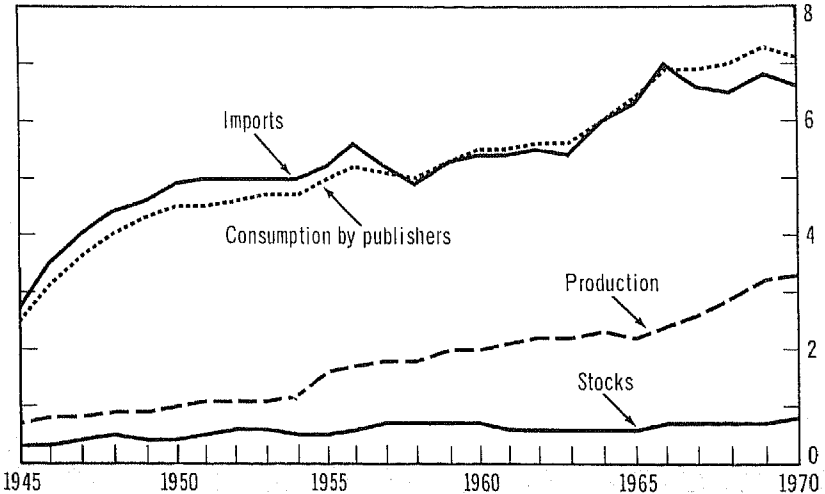
1 1969 and 1970 data are preliminary.

Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data compiled by Mackay-Shields Economies, Inc., New York, N.Y., from data supplied by National Forest Products Association, Washington, D.C.

FIG. XL. NEWSPRINT—PRODUCTION, STOCKS, CONSUMPTION, AND IMPORTS: 1945 TO 1970

[See table 1018]

MILLIONS OF SHORT TONS



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of Commerce, Office of Business Economies, and Bureau of the Census.

## Section 24

### Forests and Forest Products

This section presents basic statistics on the area and ownership of commercial forest land, and on the annual growth, cut, and volume of timber on this land; forestry statistics covering the National Forests and Forest Service cooperative programs; product statistics for lumber, pulpwood, wood pulp, paper and board, turpentine, rosin, and veneer logs; and other similar data.

The principal sources of these data are *Timber Trends in the United States*, issued in 1965 by the Forest Service of the Department of Agriculture, and *The Demand and Price Situation for Forest Products, National Forest System*, and *Wildfire Statistics*, issued annually by the Forest Service; and reports of the quinquennial Census of Manufactures and the monthly and quarterly *Current Industrial Reports*, issued by the Bureau of the Census. Additional information in this field is published in the *Annual Report* of the National Forest Reservation Commission, the *Annual Naval Stores Report* of the Department of Agriculture's Statistical Reporting Service, the monthly *Survey of Current Business* of the Office of Business Economics, and the monthly *Fingertip Facts and Figures* of the National Forest Products Association, Washington, D.C.

The Bureau of the Census also collects statistics on foreign trade of forest products. The Bureau of Labor Statistics publishes monthly and annual statistics of wholesale lumber prices. Information on the domestic movement of forest products is collected by the Interstate Commerce Commission and the Association of American Railroads.

The completeness and reliability of statistics on forests and forest products vary considerably. The data for forest land area and stand are, of course, much more reliable for areas which have been surveyed than for those which have not been surveyed. Estimates of fire damage or causes of fires are not completely reliable, although forest fire statistics for Federal lands are considered much better than those for private lands. In the field of forest products, much more data are available for lumber production and other manufactured products such as veneer and plywood, pulp and paper, naval stores, etc., than for the primary forest products such as poles and piling, fuelwood, and fence posts.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.



# No. 997. FOREST LAND—TOTAL AND COMMERCIAL AREA AND VOLUME OF SAW-TIMBER: 1938 TO 1963

[Area in millions of acres; sawtimber in billions of board feet. As of January 1. Prior to 1963, excludes Alaska and Hawaii, except total forest land and all ownership in 1963. Net volume of sawtimber also includes Alaska for 1963. For composition of regions, see table 1000]

YEAR AND REGION	Total forest land	COMMERCIAL FOREST LAND, OWNERSHIP <sup>1</sup>				NET VOLUME OF SAWTIMBER <sup>2</sup>		
		All owner-ships	Fed-erally owned or managed	State, county, and municipal	Private	Total	Soft-wood	Hard-wood
United States, 1938.....	630	462	<sup>3</sup> 121	( <sup>3</sup> )	341	1,764	1,493	271
United States, 1945.....	624	461	89	27	345	1,601	1,296	305
North.....	212	170	11	19	140	220	86	155
South.....	187	183	14	2	167	338	194	144
West.....	225	107	64	6	38	1,043	1,087	6
United States, 1953.....	772	530	99	27	358	2,057	1,648	409
North.....	199	174	13	19	142	266	59	207
South.....	197	193	14	2	177	357	183	174
West.....	376	163	72	5	40	1,434	1,406	28
United States, 1963.....	759	509	113	29	367	2,537	2,058	479
North.....	178	172	13	19	140	310	67	243
South.....	220	201	14	3	184	412	225	187
West.....	360	136	87	6	43	1,815	1,767	48

<sup>1</sup> For definition of commercial forest land, see headnote, table 1000.

<sup>2</sup> See footnote 1, table 1000. <sup>3</sup> Included with federally owned or managed.

Source: Dept. of Agriculture, Forest Service; *A Reappraisal of the Forest Situation; Timber Trends in the United States, 1965*; and *Timber Resources for America's Future*.

## No. 998. NATIONAL FOREST LANDS AND PURCHASES: 1940 TO 1970

[Area as of June 30; purchases for years ending June 30. Includes Puerto Rico. Lands to be purchased must be approved by National Forest Reservation Commission, which also sets prices on such lands. Actual purchases are made by Department of Agriculture. See also *Historical Statistics, Colonial Times to 1967*, series L 1-5]

ITEM	1940	1950	1955	1960	1965	1968	1969	1970
Gross area <sup>1</sup> ..... mil. acres..	228	229	286	227	226	227	226	226
National Forest System lands..... mil. acres..	177	181	188	186	187	<sup>2</sup> 187	<sup>2</sup> 187	<sup>2</sup> 187
Gross area approved for purchase..... mil. acres..	553,077	61,078	18,665	7,845	28,607	112,767	126,341	92,437
Average price per acre.....	\$3.98	\$8.71	\$10.30	\$14.76	\$46.67	\$83.47	\$97.77	\$124.83
Total price..... \$1,000.....	2,203	532	192	114	1,831	9,413	12,363	11,630
Purchase completed..... acres..	669,672	96,963	12,063	7,547	33,289	114,888	123,693	113,462
Average price per acre.....	\$4.14	\$7.28	\$12.23	\$31.21	\$38.97	\$70.66	\$83.48	\$95.64
Total price..... \$1,000.....	2,733	706	148	237	1,295	8,118	10,324	10,852
Gross area of purchase units <sup>3</sup> ..... 1,000 acres..	53,051	53,211	62,169	55,858	55,551	55,867	55,966	50,002
Purchase completed, net area <sup>3</sup> ..... 1,000 acres..	17,027	18,574	18,837	18,912	19,000	19,293	19,430	19,850
Average price per acre.....	\$3.76	\$3.83	\$3.87	\$3.95	\$4.16	\$5.38	\$5.85	\$6.40
Total price..... \$1,000.....	63,991	71,206	72,883	74,782	79,047	103,737	113,767	125,050

<sup>1</sup> Comprises all publicly and privately owned land within authorized boundaries of national forests, purchase units, experimental areas and land utilization projects.

<sup>2</sup> Excludes lands in process of acquisition. <sup>3</sup> Cumulative total.

Source: Dept. of Agriculture, Forest Service; annual report, *National Forest System*, and National Forest Reservation Commission; *Annual Report*.

## No. 999. FOREST TREE DISTRIBUTION PROGRAM AND COSTS: 1940 TO 1970

[For years ending June 30, except calendar year for trees, 1940. Excludes Alaska; includes Puerto Rico]

YEAR	Trees distributed (1,000)	COSTS (\$1,000)			YEAR	Trees distributed (1,000)	COSTS (\$1,000)		
		Total	Federal contribution	State expenditure			Total	Federal contribution	State expenditure
1940.....	87,468	482	98	384	1966.....	521,440	6,812	219	6,593
1950.....	136,395	1,503	189	1,314	1967.....	572,088	7,989	220	7,769
1955.....	496,571	3,929	372	3,557	1968.....	573,067	9,067	221	8,846
1960.....	844,599	6,573	186	6,387	1969.....	523,936	10,114	204	9,911
1965.....	508,651	6,865	216	6,649	1970 (prel.)	494,941	8,544	197	8,347

Source: Dept. of Agriculture, Forest Service. In annual report, *Agricultural Statistics*.

# No. 1000. FOREST LAND—AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP, AND VOLUME OF SAWTIMBER AND GROWING STOCK, BY STATES: 1963

[As of January 1. Commercial forest land comprises all land which was (a) producing, or physically capable of producing, usable crops of industrial wood, (b) economically available on date shown or prospectively, and (c) not withdrawn from timber utilization]

STATE	Total forest land (1,000 acres)	COMMERCIAL FOREST LAND, OWNERSHIP (1,000 acres)				SAWTIMBER, NET <sup>1</sup> (mil. bd. ft. int'l. ¼ inch log rule)		GROWING STOCK, NET <sup>2</sup> (mil. cu. ft.)	
		Total	Federal	State, county, municipal	Private	Soft-wood	Hard-wood	Soft-wood	Hard-wood
United States.....	758,865	508,845	113,176	28,692	366,977	2,058,022	478,777	434,082	193,800
North	178,440	171,789	12,508	19,499	139,782	66,627	243,147	31,306	105,163
New England.....	31,886	31,451	906		29,640	30,368	24,060	16,003	14,692
Connecticut.....	1,990	1,973	1	154	1,818	190	2,087	117	1,419
Maine.....	17,425	17,169	66	139	16,984	20,657	10,625	11,679	6,169
Massachusetts.....	3,288	3,269	29	370	2,890	851	1,702	510	1,517
New Hampshire.....	5,019	4,907	579	118	4,210	5,859	3,162	2,537	2,142
Rhode Island.....	434	430	-	26	404	27	165	17	193
Vermont.....	3,730	3,713	231	98	3,384	2,784	6,329	1,143	3,252
Middle Atlantic.....	46,646	43,888	1,538	4,170	38,180	13,744	89,960	5,664	40,947
Delaware.....	392	391	1	8	382	546	709	238	297
Maryland.....	2,920	2,897	54	160	2,683	1,699	7,123	833	2,862
New Jersey.....	2,229	2,120	17	237	1,866	604	2,939	314	1,148
New York.....	14,450	12,002	98	797	11,107	7,009	24,974	2,757	11,390
Pennsylvania.....	16,186	15,089	485	2,816	11,789	2,351	25,381	955	13,974
West Virginia.....	11,469	11,389	883	153	10,353	1,565	28,834	567	11,276
Lake	55,211	52,392	7,554	13,687	31,151	18,213	41,492	8,350	23,546
Michigan.....	19,099	19,121	2,540	3,780	12,801	7,400	19,096	3,233	9,287
Minnesota.....	19,047	17,056	2,813	6,720	7,523	6,560	8,959	3,607	6,195
North Dakota.....	439	424	118	10	296	-	637	-	310
South Dakota (east).....	439	395	173	21	201	52	705	11	387
Wisconsin.....	15,588	15,396	1,910	3,156	10,330	4,201	12,095	1,499	7,367
Central	44,697	44,058	2,510	737	40,811	4,302	87,635	1,289	25,978
Illinois.....	3,871	3,761	229	11	3,521	28	8,548	16	2,328
Indiana.....	4,018	3,960	177	117	3,666	62	12,603	33	3,326
Iowa.....	2,620	2,595	13	24	2,568	6	6,188	4	1,640
Kansas.....	1,668	1,664	1	-	1,663	10	4,270	9	1,149
Kentucky.....	10,891	10,840	575	77	10,188	2,485	26,776	671	8,016
Missouri.....	15,296	14,977	1,361	224	13,392	879	11,733	338	4,683
Nebraska.....	1,162	1,140	66	12	1,062	423	1,249	104	333
Ohio.....	5,171	5,121	88	272	4,761	409	16,368	114	4,503
South	220,304	201,069	14,062	2,820	184,187	224,757	187,313	62,688	71,398
South Atlantic.....	48,994	47,604	3,361	606	43,637	54,697	62,857	17,053	23,463
North Carolina.....	20,862	20,216	1,247	290	18,679	28,006	27,437	8,445	10,256
South Carolina.....	11,640	11,569	837	178	10,546	13,990	11,001	4,258	3,884
Virginia.....	16,492	15,829	1,277	140	14,412	12,701	24,419	4,350	9,343
East Gulf	46,269	44,772	3,314	715	40,743	44,661	28,229	14,854	9,809
Florida.....	19,004	18,474	1,640	580	16,254	16,253	6,781	4,758	2,387
Georgia.....	26,365	26,298	1,674	135	24,489	28,408	18,448	10,096	7,422
Central Gulf	53,685	53,361	2,900	1,019	49,442	49,746	43,873	13,379	16,986
Alabama.....	21,700	21,742	799	202	20,741	25,307	18,295	7,673	6,775
Mississippi.....	18,078	17,676	1,267	452	16,287	17,111	9,253	4,424	4,012
Tennessee.....	13,907	13,643	834	385	12,444	4,328	16,325	1,282	6,193
West Gulf	71,356	55,332	4,487	480	50,365	76,653	55,354	17,402	21,146
Arkansas.....	21,591	21,530	2,641	205	18,684	20,393	15,986	5,909	6,783
Louisiana.....	16,576	16,512	704	181	16,627	25,140	27,140	5,704	9,600
Oklahoma.....	9,235	5,299	423	80	4,816	2,483	2,271	618	990
Texas.....	23,664	11,991	710	34	11,288	21,697	9,988	5,171	3,865
West	360,121	135,987	86,606	6,373	43,008	1,766,638	48,317	340,088	17,239
Pacific Northwest	172,276	51,884	29,226	19,492	1,055,470	36,459	191,867	11,218	21,218
Alaska.....	118,487	5,761	5,585	146	30	180,930	1,625	34,718	346
Oregon.....	30,789	26,613	15,379	923	10,311	515,879	20,480	89,203	6,820
Washington.....	23,050	19,510	9,162	2,200	9,151	358,661	14,404	67,946	4,852
Pacific Southwest	44,523	18,480	8,159	681	8,637	302,298	2,336	64,861	657
California.....	42,541	17,391	9,153	194	8,044	302,298	1,614	54,861	437
Hawaii.....	1,982	1,089	9	487	593	-	722	-	220
Northern Rocky Mt.	55,039	39,287	28,467	1,753	9,067	269,645	1,547	60,855	883
Idaho.....	21,815	15,823	11,817	940	3,066	126,484	317	26,244	270
Montana.....	22,048	17,300	11,801	639	4,860	111,799	838	26,486	284
South Dakota (west).....	1,399	1,311	966	63	282	3,423	7	991	6
Wyoming.....	9,777	4,853	3,883	111	859	27,939	385	7,134	324
Southern Rocky Mt.	88,283	26,336	19,854	670	5,812	139,225	7,975	32,505	4,481
Arizona.....	19,902	3,870	3,701	34	135	28,098	189	6,118	120
Colorado.....	22,583	12,275	8,907	235	3,133	60,477	3,781	14,897	2,440
Nevada.....	12,036	109	32	-	77	565	7	126	25
New Mexico.....	18,807	6,083	4,118	161	1,804	29,872	1,870	6,878	561
Utah.....	14,955	3,999	3,096	240	663	20,213	2,128	4,490	1,335

- Represents zero. <sup>1</sup> Comprises species which contain at least 1 saw log defined as follows: Softwoods must be at least 9.0 inches in diameter, breast height, except in Calif., Oreg., Wash., and coastal Alaska where the minimum diameter is 11.0 inches. Hardwoods must be 11.0 inches in all States. <sup>2</sup> Comprises all live sawtimber trees, polelimber trees, saplings, and seedlings meeting specified standards of quality or vigor; excludes cull trees.

Source: Dept. of Agriculture, Forest Service; *Timber Trends in the United States, 1965.*

## No. 1001. NATIONAL FOREST SYSTEM—SUMMARY: 1940 TO 1970

[Money figures in thousands of dollars. For years ending June 30, except as noted. Includes Alaska and Puerto Rico, except as noted. See also *Historical Statistics, Colonial Times to 1967*, series J 41-42 and L 7-22]

ITEM	1940	1950	1955	1960	1965	1968	1969	1970
Livestock grazing: <sup>1</sup>								
Cattle, horses, and swine <sup>2</sup> .....1,000..	1,314	1,128	1,148	1,807	1,376	1,581	1,577	1,607
Sheep and goats.....1,000..	4,968	3,013	2,830	2,574	2,112	2,246	2,182	2,095
Roads and trails:								
Road construction and reconstr <sup>3</sup> ..miles..	4,3,654	463	767	851	1,613	1,270	1,027	942
Trail construction and reconstr <sup>3</sup> ..miles..	2,221	828	184	142	671	954	447	278
Expenditures (maint. and constr.).....	23,511	15,086	29,413	43,151	105,472	122,668	114,569	153,855
Timber cut, total value.....	5,168	31,140	71,231	157,094	161,880	240,226	327,944	308,638
Commercial and cost sales: <sup>4</sup>								
Volume.....mil. bd. ft.....	1,740	3,502	6,328	9,867	11,244	12,129	11,783	11,527
Value.....	4,807	30,714	70,761	156,424	161,106	239,311	326,997	307,610
Free use:								
Volume.....mil. bd. ft.....	326	121	106	123	191	175	168	179
Value <sup>5</sup> .....	304	215	204	216	280	293	282	333
Misc. forest products, value.....	57	211	266	454	494	622	665	695
Receipts, total.....	5,893	34,551	81,139	148,213	149,239	218,323	321,254	299,703
Timber use.....	3,943	30,289	75,353	140,126	138,772	205,627	306,815	283,907
Grazing use.....	1,463	3,385	3,760	4,507	3,521	4,083	4,438	4,371
Special land use, water power, etc.....	456	896	2,026	3,579	6,946	8,613	10,001	11,425
Payments to States and Puerto Rico <sup>7</sup> .....	1,456	8,478	19,573	35,672	35,757	52,562	78,396	72,239
25-percent fund.....	1,433	8,363	19,413	35,222	35,295	51,820	77,461	70,844
Ariz. and N. Mex. school fund.....	23	72	114	140	112	90	125	84
Minnesota.....	-	44	46	123	141	146	258	258
Alaska (Tongass suspense account) <sup>8</sup> .....	-	(NA)	(NA)	187	210	506	552	1,052
Allotments to Forest Service <sup>9</sup> .....	678	3,484	7,776	14,176	14,255	20,960	31,250	28,836

- Represents zero. NA Not available.

<sup>1</sup> Number permitted to graze. Through 1955, excludes national grasslands and land utilization project lands. Calendar-year data. Excludes Puerto Rico. <sup>2</sup> Excludes animals under 6 months of age.

<sup>3</sup> Through 1965, excludes national grasslands. <sup>4</sup> Includes forest highway construction.

<sup>5</sup> Includes land exchanges. <sup>6</sup> Includes some free use timber not reducible to board feet. <sup>7</sup> Payments made in following year. <sup>8</sup> Total for 1948 through 1956 was \$597,133. <sup>9</sup> For use in following year.

Source: Dept. of Agriculture, Forest Service. In annual report, *Agricultural Statistics*, and unpublished data.

## No. 1002. NATIONAL FOREST SYSTEM AND OTHER AREAS—STATES AND PUERTO RICO: 1970

[In thousands of acres. Gross area within unit boundaries as of June 30. See headnote, table 998. See also *Historical Statistics, Colonial Times to 1967*, series L 1-2]

STATE	Gross area within unit boundaries	National forest system lands	Other lands within unit boundaries <sup>1</sup>	STATE OR OTHER AREA	Gross area within unit boundaries <sup>1</sup>	National forest system lands	Other lands within unit boundaries
Total.....	226,064	186,900	39,164	Nebraska.....	441	351	90
Alabama.....	1,271	633	638	Nevada.....	5,410	5,086	324
Alaska.....	20,777	20,723	54	New Hampshire.....	805	681	124
Arizona.....	12,093	11,444	650	New Mexico.....	10,245	9,239	1,006
Arkansas.....	3,494	2,452	1,042	New York.....	14	14	-
California.....	24,318	20,051	4,267	North Carolina.....	3,166	1,129	2,036
Colorado.....	15,888	14,383	1,505	North Dakota.....	1,105	1,105	-
Connecticut.....	(2)	(2)	-	Ohio.....	1,498	141	1,358
Florida.....	1,225	1,080	145	Oklahoma.....	460	288	172
Georgia.....	1,912	832	1,080	Oregon.....	17,303	15,477	1,826
Idaho.....	21,602	20,343	1,259	Pennsylvania.....	742	495	247
Illinois.....	837	242	595	South Carolina.....	1,374	592	782
Indiana.....	753	156	597	South Dakota.....	2,269	1,986	283
Iowa.....	(2)	(2)	-	Tennessee.....	1,213	610	603
Kansas.....	108	108	-	Texas.....	1,834	776	1,058
Kentucky.....	2,003	577	1,426	Utah.....	9,103	8,026	1,078
Louisiana.....	1,017	594	423	Vermont.....	629	241	388
Maine.....	94	50	44	Virginia.....	3,230	1,520	1,711
Michigan.....	4,793	2,674	2,119	Washington.....	10,043	9,084	959
Minnesota.....	5,042	2,781	2,261	West Virginia.....	1,857	942	916
Mississippi.....	2,312	1,135	1,176	Wisconsin.....	1,973	1,488	486
Missouri.....	3,002	1,426	1,576	Wyoming.....	9,684	9,243	441
Montana.....	19,066	16,675	2,391	Puerto Rico.....	56	28	28

- Represents zero. Z Less than 500 acres. <sup>1</sup> See footnote 1, table 998.

Source: Dept. of Agriculture, Forest Service; annual report, *National Forest System*.

# Forest Fires—Lumber Production

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## No. 1003. FOREST FIRES—SUMMARY: 1950 TO 1970

[Area in thousands of acres; expenditures in thousands of dollars. See also *Historical Statistics, Colonial Times to 1957*, series L 100-109]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970
Federal, protected area: <sup>1</sup>								
Forest area <sup>2</sup>	212,622	216,728	362,836	655,001	654,601	650,039	651,827	647,239
Number of fires	8,418	6,830	12,090	9,073	11,495	10,027	10,112	14,968
Area burned	391	364	622	146	342	1,205	4,112	719
State and private: <sup>3</sup>								
Forest area	426,694	431,109	434,830	502,317	517,210	515,000	543,092	566,252
Protected <sup>4</sup>	360,564	387,156	402,800	472,023	479,623	486,461	511,965	520,501
Unprotected	66,130	43,953	32,030	30,294	37,587	28,539	31,127	45,751
Number of fires	199,982	138,350	91,297	104,611	113,530	115,344	103,239	106,788
Protected	96,578	80,774	77,537	91,495	102,267	107,689	97,393	101,455
Unprotected	103,404	57,576	13,760	13,116	11,263	7,655	6,846	5,313
Area burned	15,127	7,424	3,856	2,508	4,316	3,027	2,577	2,560
Protected	3,407	2,448	1,909	1,206	1,926	1,633	1,582	1,541
Unprotected	11,720	4,976	1,947	1,300	2,390	1,394	995	1,019
Fire protection expenditures <sup>7</sup>	28,934	39,216	56,641	76,562	90,964	96,070	100,955	113,549
Federal	8,561	8,945	9,401	12,783	12,834	14,367	14,396	16,440
State and county	18,121	28,168	45,059	62,612	76,626	80,464	85,222	95,293
Private agencies	2,262	2,103	2,181	1,167	1,504	1,249	1,337	1,816
Total fires	208,588	145,264	103,387	113,684	125,025	125,371	113,351	121,736
On protected areas	105,182	87,688	89,627	100,598	113,762	117,716	107,505	116,423
Percent of total	50.4	60.4	86.7	88.5	91.0	93.9	94.8	95.6
Lightning	6,518	6,282	11,068	8,730	10,336	9,066	8,283	12,804
Campfires	3,802	3,924	3,614	3,404	3,405	2,986	3,489	3,822
Smoking	18,287	15,882	16,030	16,517	16,844	17,162	14,753	14,500
Debris burning	18,768	20,338	21,870	22,882	28,253	31,192	27,652	28,337
Incendiary (arson)	40,127	25,775	21,162	26,860	33,116	32,417	31,383	30,925
Equipment use <sup>8</sup>	(NA)	(NA)	(NA)	6,734	8,763	8,382	8,437	3,406
Miscellaneous <sup>9</sup>	17,680	15,487	15,893	15,441	13,046	16,511	13,558	22,629

NA Not available.

<sup>1</sup> Comprises national forests, public domain, land administered by Dept. of the Interior, Soil Conservation Service, Tennessee Valley Authority, etc.

<sup>2</sup> Beginning 1966, includes nonforest watershed areas under Dept. of the Interior protection.

<sup>3</sup> Excludes Alaska and Hawaii. <sup>4</sup> Excludes Alaska.

<sup>5</sup> Prior to 1960, excludes Alaska. <sup>6</sup> Includes nonforest watershed areas.

<sup>7</sup> For fire protection on State and private forest lands only, years ending June 30.

<sup>8</sup> Beginning 1970, data not comparable with prior years due to change of definition. Through 1969, figures represent "Machine Use."

<sup>9</sup> Prior to 1965, lumbering and railroads included in "Miscellaneous"; thereafter, in various other classifications, except data for 1970 include 6,824 railroad fires and 7,652 fires caused by children.

Source: Dept. of Agriculture, Forest Service; annual report, *Wildfire Statistics*, and unpublished data.

## No. 1004. LUMBER PRODUCTION, BY GEOGRAPHIC DIVISIONS: 1967 TO 1969

[Production in millions of board feet, lumber tally. Data are based in part on a sample of sawmills and are estimates which may vary from the figures which would be obtained from a complete census. For composition of divisions, see fig. 1, p. xli. See *Historical Statistics, Colonial Times to 1957*, series L 36-44, for data by regions]

GEOGRAPHIC DIVISION	1967			1968			1969 (prel.)		
	Production	Per cent	Standard error <sup>1</sup> (per cent)	Production	Per cent	Standard error <sup>1</sup> (per cent)	Production	Per cent	Standard error <sup>1</sup> (per cent)
United States	34,741	100.0	(2)	36,473	100.0	(2)	35,597	100.0	(2)
New England	654	1.9	(2)	665	1.8	(2)	678	1.9	(2)
Middle Atlantic	882	2.5	(2)	908	2.5	(2)	915	2.6	(2)
East North Central	1,195	3.4	(2)	1,222	3.4	(2)	1,220	3.4	(2)
West North Central	595	1.7	(4)	592	1.6	(4)	630	1.8	(4)
South Atlantic	5,204	15.0	(2)	5,248	14.4	(2)	5,206	14.6	(2)
East South Central	3,275	9.4	(2)	3,350	9.2	(2)	3,392	10.1	(2)
West South Central	3,131	9.0	(2)	3,198	8.8	(2)	3,427	9.6	(2)
Mountain	4,223	12.2	(2)	4,608	12.6	(2)	4,426	12.4	(2)
Pacific	16,532	44.9	(2)	16,687	45.8	(2)	16,503	43.6	(2)

<sup>1</sup> See Technical Note, p. 685, for explanation of standard error.

<sup>2</sup> 5 percent or less.

<sup>3</sup> More than 5 percent but not exceeding 10 percent.

<sup>4</sup> More than 10 percent but not exceeding 15 percent.

Source: Dept. of Commerce, Bureau of the Census; reports of Census of Manufactures and *Current Industrial Reports*, Series M24T.

## No. 1005. LUMBER PRODUCTION, BY KIND OF WOOD: 1950 TO 1969

[In millions of board feet, lumber tally. Prior to 1964, excludes Alaska and Hawaii. Based on sample surveys; see source for sampling variability. See also *Historical Statistics, Colonial Times to 1967*, series L 45-60]

KIND OF WOOD	1950	1955	1960	1964	1965	1966	1967	1968	1969 (prel.)
<b>Total</b> .....	38,007	37,380	32,926	36,559	36,762	36,584	34,741	36,475	35,597
<b>Softwoods</b> .....	30,633	29,815	26,672	29,284	29,295	28,847	27,311	29,286	28,281
Cedar.....	1,313	(s)	(s)	651	633	610	586	630	567
Douglas fir.....	9,984	10,414	8,832	8,868	8,783	8,528	7,822	8,582	8,027
Hemlock.....	1,508	1,568	2,032	2,490	2,576	2,490	2,267	2,186	1,918
Larch.....	249	340	418	431	441	421	405	400	362
Ponderosa pine.....	3,805	3,063	3,169	3,729	3,776	3,808	3,583	3,826	3,719
Redwood.....	875	991	1,000	1,199	1,087	1,088	959	1,049	1,077
Southern yellow pine.....	9,959	7,360	5,060	6,414	6,628	6,609	6,511	6,001	7,243
Engelmann and sitka.....	(NA)	(NA)	471	626	641	666	686	793	807
Sugar pine.....	425	390	403	467	464	507	495	541	487
White fir.....	1,114	2,059	2,224	2,540	2,422	2,321	2,116	2,394	2,093
White pine.....	1,292	1,105	(s)	* 1,135	* 1,161	* 1,111	* 1,085	* 1,111	* 1,060
Other softwoods.....	1,072	777	675	734	693	738	826	923	921
<b>Hardwoods</b> <sup>1</sup> .....	7,374	7,565	6,254	7,275	7,467	7,737	7,430	7,189	7,316
Ash.....	81	125	125	136	141	154	149	132	145
Basswood.....	(4)	119	92	69	87	90	77	68	73
Beech.....	325	226	195	175	182	175	163	159	176
Birch.....	137	144	126	121	109	104	99	95	88
Cottonwood <sup>2</sup> .....	225	327	206	205	198	211	202	190	202
Elm.....	(4)	198	195	204	206	208	200	212	189
Maple.....	546	568	602	642	786	658	715	704	691
Oak.....	3,347	3,716	2,789	3,417	3,356	3,675	3,424	3,319	3,415
Sweet (red and sap) gum.....	758	529	331	380	387	434	385	364	384
Tupelo and black gum.....	342	364	292	381	385	352	344	336	327
Yellow poplar.....	833	690	592	645	681	692	666	662	668
Other hardwoods.....	780	559	593	899	940	984	1,006	949	958

NA Not available. S Suppressed; standard error more than 15 percent.

<sup>1</sup> Incense, Port Orford, and western red cedar only; eastern red cedar included in "Other softwoods."

<sup>2</sup> Standard error more than 15 percent. <sup>3</sup> Beginning 1960, includes estimate for western hardwoods, not reported by species. <sup>4</sup> Included in "Other hardwoods." <sup>5</sup> Includes aspen.

Source: Dept. of Commerce, Bureau of the Census; reports of Census of Manufactures and Current Industrial Reports, Series M24T.

## No. 1006. LUMBER PRODUCTION, CONSUMPTION, STOCKS, EXPORTS, AND IMPORTS: 1950 TO 1970

[In millions of board feet, except ratios. Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1967*, series L 23-35, for series from Bureau of the Census and Forest Service]

ITEM	1950	1955	1960	1965	1967	1968	1969 (prel.)	1970 (prel.)
<b>Production</b> <sup>1</sup> .....	38,902	37,858	32,926	36,762	36,602	37,450	37,949	36,692
Softwoods.....	31,628	30,293	26,672	29,295	28,172	30,223	29,481	28,639
Hardwoods.....	7,374	7,565	6,254	7,467	7,430	7,227	8,468	8,053
<b>Domestic consumption</b> <sup>2</sup> .....	41,627	41,088	35,226	41,847	39,648	43,193	42,784	40,422
Softwoods.....	34,277	32,830	28,974	33,766	32,317	35,189	33,773	33,185
Hardwoods.....	7,350	8,258	6,252	8,081	7,231	8,004	9,011	7,287
<b>Gross mill stocks, end of year</b> .....	6,183	6,669	7,352	5,605	5,751	5,004	5,334	6,373
Softwoods.....	4,207	5,386	5,285	4,539	4,351	4,166	4,704	4,848
Hardwoods.....	1,976	3,283	2,067	1,066	1,400	838	630	1,525
<b>Ratio, total mill stocks to total consumption</b> .....	15	21	21	13	15	12	12	16
Softwoods.....	12	16	18	13	13	12	14	15
Hardwoods.....	27	40	33	13	19	10	7	21
<b>Exports</b> <sup>3</sup> .....	518	844	861	922	1,134	1,159	1,135	1,290
Softwoods.....	407	652	688	777	955	1,024	1,018	1,152
Hardwoods.....	111	189	173	145	179	135	117	138
<b>Imports</b> <sup>3</sup> .....	3,432	3,597	3,922	5,233	5,146	6,156	6,304	6,116
Softwoods.....	3,140	3,327	3,631	4,895	4,798	5,803	5,849	5,769
Hardwoods.....	283	266	291	338	348	348	455	347

<sup>1</sup> Beginning 1965, includes Alaska. <sup>2</sup> Represents shipments and net imports.

<sup>3</sup> Includes box shooks and railroad ties (sawed). Includes Alaska, Hawaii, and Puerto Rico.

Source: Compiled by Mackay-Shields Economics, Inc., New York, N.Y., from data supplied by National Forest Products Association, Washington, D.C.

# Lumber Products

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## No. 1007. INDUSTRIAL TIMBER PRODUCTS FROM ROUNDWOOD—SUMMARY: 1940 TO 1970

[In millions of cubic feet. Excludes fuelwood. See also *Historical Statistics, Colonial Times to 1967*, series L 72-84]

ITEM	1940	1950	1960	1965	1966	1967	1968	1969	1970 (prel.)
<b>Total:</b>									
Domestic production <sup>1</sup> .....	6,990	8,525	8,910	10,550	10,680	10,405	11,035	11,000	11,125
Imports.....	715	1,525	1,680	2,105	2,225	2,160	2,395	2,505	2,395
Exports.....	285	140	455	715	800	955	1,120	1,140	1,380
Apparent consumption <sup>2</sup> .....	7,420	9,910	10,135	11,935	12,105	11,615	12,310	12,365	12,145
<b>Saw logs:</b>									
Domestic production.....	<sup>3</sup> 4,845	<sup>3</sup> 5,905	<sup>3</sup> 5,080	5,670	5,645	5,360	5,630	5,500	5,285
Imports.....	115	535	615	815	810	800	960	985	955
Exports.....	150	80	135	145	160	175	180	180	200
Apparent consumption.....	4,810	6,360	5,560	6,345	6,295	5,990	6,410	6,305	6,040
<b>Veneer logs:</b>									
Domestic production.....	235	345	705	1,030	1,030	995	1,025	940	980
Imports.....	(2)	5	80	100	115	110	185	180	170
Exports.....	5	(2)	(2)	5	5	10	10	20	15
Apparent consumption.....	230	350	785	1,125	1,140	1,100	1,180	1,100	1,115
<b>Pulpwood:</b>									
Domestic production.....	<sup>3</sup> 635	<sup>3</sup> 1,500	<sup>4</sup> 2,505	3,100	3,220	3,220	3,405	3,630	3,925
Imports.....	565	935	985	1,175	1,285	1,235	1,260	1,330	1,250
Exports.....	120	50	275	380	420	460	525	565	730
Apparent consumption.....	1,380	2,385	3,280	3,900	4,085	3,995	4,140	4,390	4,445
<b>Logs:</b>									
Imports.....	35	45	20	10	15	15	15	15	25
Exports.....	10	10	45	190	220	310	405	375	430
Other products <sup>5</sup> .....	965	770	510	580	565	515	570	550	525

<sup>1</sup> Less than 500,000 cubic feet.

<sup>2</sup> Includes log exports.

<sup>3</sup> Includes log imports.

<sup>4</sup> Excludes Alaska and Hawaii.

<sup>5</sup> Excludes Hawaii.

<sup>6</sup> Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, etc.

Source: Dept. of Agriculture, Forest Service; *The Demand and Price Situation for Forest Products*.

## No. 1008. STUMPAGE PRICES FOR SELECTED SPECIES: 1940 TO 1970

[In dollars per 1,000 board feet. Represents average prices for sawtimber sold from National Forests. See also *Historical Statistics, Colonial Times to 1967*, series L 85-91]

SPECIES	1940	1950	1955	1960	1965	1968	1969	1970
<b>Softwoods:</b>								
Douglas-fir.....	2.30	18.40	28.90	32.00	42.60	61.20	82.20	41.90
Southern pine.....	4.50	26.70	32.00	34.50	31.70	42.20	51.70	44.10
Ponderosa pine.....	2.20	18.30	26.10	19.10	19.80	30.20	71.00	32.10
Western hemlock.....	(NA)	(NA)	(NA)	10.50	19.10	35.60	45.10	20.50
<b>Hardwoods:</b>								
All eastern hardwoods.....	(NA)	(NA)	(NA)	22.80	25.00	23.60	30.20	26.90
Oak, white and red.....	(NA)	(NA)	(NA)	23.40	21.30	17.30	28.20	26.60
Maple.....	(NA)	(NA)	(NA)	35.00	31.90	31.30	41.10	34.40

NA Not available.

Source: Dept. of Agriculture, Forest Service. In annual report, *The Demand and Price Situation for Forest Products*.

## No. 1009. SELECTED TIMBER PRODUCTS—WHOLESALE PRICE INDEXES: 1940 TO 1970

[1967=100. 1960 and earlier years exclude Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1967* series L 92-96, for indexes on 1947-49 base]

YEAR	Lumber	Plywood <sup>1</sup>	Woodpulp	Paper	Paperboard
1940.....	25.8	—	43.0	40.3	37.6
1945.....	33.9	—	53.8	45.9	49.9
1950.....	86.0	160.1	81.0	67.9	81.2
1955.....	94.5	142.1	95.7	82.8	98.2
1960.....	92.1	110.6	102.2	92.7	104.6
1965.....	94.0	103.9	100.1	94.8	101.5
1966.....	100.1	109.2	100.0	97.5	102.2
1968.....	117.4	133.6	100.0	102.0	98.9
1969.....	131.5	140.0	100.0	106.0	99.4
1970.....	113.7	116.4	109.3	111.0	101.1

— Represents zero. <sup>1</sup> Softwood plywood, interior grade A-D.

Source: Dept. of Labor, Bureau of Labor Statistics. Current data in *Monthly Labor Review*.

## No. 1010. MILLWORK AND WOOD PRODUCTS—PRODUCTION: 1950 TO 1970

ITEM	1950	1960	1965	1968	1969	1970 (prel.)
Hardwood flooring.....mil. bd. ft.	1,077	915	808	487	416	333
Softwood plywood.....mil. sq. ft., 3/4" basis	2,676	7,759	12,428	14,385	13,538	14,637
Insulation boards.....1,000 short tons	838	1,098	1,268	1,333	1,362	1,186
Hardboard.....1,000 short tons	381	686	1,093	1,282	1,450	1,149
Particleboard.....mil. sq. ft., 3/4" basis	(NA)	268	780	1,425	1,704	2,000
Softwood pine doors <sup>1</sup> .....1,000 units	3,330	1,948	2,041	2,166	1,610	1,622
Hardwood doors <sup>1</sup> .....1,000 units	1,221	3,763	5,307	5,081	4,854	4,883
Sash <sup>1</sup> .....1,000 units	9,414	7,958	8,891	8,177	6,520	5,706
Window and door <sup>1</sup> .....1,000 units	4,644	5,345	6,250	5,405	4,880	4,435

NA Not available.

<sup>1</sup> Covers only reports of shipments from members of National Woodwork Manufacturers' Association.Source: Dept. of Commerce, Bureau of Domestic Commerce; *Construction Review*. Data compiled from reports by various trade associations and Bureau of the Census.

## No. 1011. NAVAL STORES—PRODUCTION: 1940 TO 1971

[Turpentine and other products in thousands of barrels of 50 gallons; rosin in thousands of drums of 520 pounds net, except as noted. For crop years ending March 31. Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series L 70-71]

PRODUCT BY TYPE OF EXTRACTION	1940	1950	1960	1965	1969	1970	1971
<b>Total turpentine.....</b>	<b>605</b>	<b>673</b>	<b>637</b>	<b>679</b>	<b>652</b>	<b>617</b>	<b>576</b>
Gum.....	383	323	107	120	50	35	28
Wood.....	<sup>1</sup> 222	350	529	550	602	582	550
Steam distilled.....	169	200	176	167	129	103	95
Sulphate.....	57	148	363	402	473	480	455
<b>Total rosin.....</b>	<b>1,814</b>	<b>2,024</b>	<b>1,916</b>	<b>2,015</b>	<b>1,846</b>	<b>1,741</b>	<b>1,655</b>
Gum <sup>2</sup> .....	1,054	925	334	393	171	119	88
Wood, steam distilled <sup>2</sup> .....	759	1,099	1,199	1,036	960	830	738
Tall oil.....	-	-	383	586	714	793	800
<b>Other products:</b>							
Pine oil <sup>4</sup> .....	(NA)	141	197	234	289	278	277
Other terpenes.....	(NA)	74	94	125	101	99	79

- Represents zero. NA Not available. <sup>1</sup> Includes "Destructively distilled."<sup>2</sup> Thousands of drums of 517 pounds. <sup>3</sup> Beginning 1950, total primary production of FF wood rosin.<sup>4</sup> Beginning 1965, data not comparable with earlier years due to change in reporting procedure.Source: Dept. of Agriculture, Statistical Reporting Service; *Annual Naval Stores Report*.

## No. 1012. PULPWOOD—PRODUCTION AND CONSUMPTION: 1950 TO 1970

[In thousands of cords of 128 cubic feet. Excludes Alaska prior to 1955 and Hawaii prior to 1962. See also *Historical Statistics, Colonial Times to 1957*, series L 61]

YEAR	Pro- duction <sup>1</sup>	CONSUMPTION			YEAR	Pro- duction <sup>1</sup>	CONSUMPTION		
		Total	Soft- wood	Hard- wood			Total	Soft- wood	Hard- wood
1950.....	20,712	23,627	20,406	3,221	1964.....	49,219	50,659	39,329	11,330
1955.....	30,948	33,356	27,728	5,628	1965.....	53,208	51,970	39,676	12,294
					1966.....	57,084	56,260	42,857	13,403
1960.....	40,011	40,485	32,061	8,424	1967.....	57,082	55,932	42,703	13,229
1961.....	40,272	42,191	33,095	9,097	1968.....	61,332	62,092	47,195	14,897
1962.....	42,772	44,070	34,193	9,877	1969.....	65,053	65,017	45,905	16,112
1963.....	44,708	46,435	35,661	10,774	1970 (prel.).....	65,209	64,570	45,140	16,430

<sup>1</sup> Includes slabs, chips, and millwaste. Production is equal to receipts from domestic sources by woodpulp mills located in the United States.Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M 26A.

# No. 1013. WOODPULP—PRODUCTION, IMPORTS, EXPORTS, AND CONSUMPTION: 1950 TO 1970

[In thousands of short tons. Prior to 1965, excludes Hawaii. See also *Historical Statistics, Colonial Times to 1967*, series L 64]

ITEM	1950	1955	1960	1965	1966	1967	1968	1969	1970 (prel.)
Total new supply.....	17,138	22,319	26,556	35,728	38,414	38,122	42,508	45,353	42,223
Production, total.....	14,849	20,740	25,316	33,993	36,603	36,677	40,892	43,416	41,805
Sulphate.....	7,602	11,290	14,590	21,609	23,681	23,998	27,156	29,222	28,320
Unbleached.....	5,709	7,665	8,681	12,698	13,845	13,894	15,609	16,824	15,629
Bleached and semi-bleached.....	1,793	3,625	5,909	8,811	9,836	10,104	11,547	12,398	12,691
Groundwood.....	2,216	2,729	3,292	3,695	3,702	3,885	4,178	4,437	4,368
Other.....	5,132	6,720	7,434	8,889	9,221	8,704	9,559	9,788	9,127
Imports <sup>1</sup> .....	2,385	2,213	2,381	3,137	3,358	3,166	3,532	4,040	3,513
Exports <sup>1</sup> .....	96	634	1,142	1,402	1,547	1,721	1,916	2,103	3,095
Consumption in paper and board <sup>1</sup> .....	16,509	21,454	25,700	34,006	36,922	36,994	41,303	44,010	41,637

<sup>1</sup> Source: American Paper Institute, Inc., New York, N.Y.; annual report, *Wood Pulp Statistics*.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M 26A, except as noted.

## No. 1014. PLYWOOD AND PARTICLEBOARD: 1968 AND 1969

[Quantities in millions of square feet; value in thousands of dollars]

PRODUCT	1968				1969			
	Production	Shipments <sup>1</sup>		Value	Production	Shipments <sup>1</sup>		Value
		Quantity	Value			Quantity	Value	
Hardwood plywood.....	2,144	1,786	353,875	1,967	1,613	333,210		
Veneer core, all types.....	1,856	1,657	(NA)	1,638	1,483	(NA)		
Technical and type I <sup>2</sup> .....	31	10	(NA)	20	11	(NA)		
Type II <sup>3</sup> .....	1,734	1,566	(NA)	1,534	1,398	(NA)		
Type III, dry bond.....	90	81	(NA)	84	74	(NA)		
Other core, all types.....	199	83	(NA)	237	80	(NA)		
Container and packaging type.....	90	46	(NA)	92	50	(NA)		
Softwood plywood.....	14,385	14,517	1,069,690	13,538	13,406	1,086,186		
Interior type.....	7,021	7,141	470,804	6,079	6,005	446,718		
Exterior type.....	7,365	7,376	599,795	7,459	7,402	639,468		
Particleboard.....	1,425	1,371	141,918	1,705	1,674	207,435		
Platen.....	1,391	(NA)	(NA)	1,671	(NA)	(NA)		
Extruded.....	34	(NA)	(NA)	34	(NA)	(NA)		

NA Not available. <sup>1</sup> Includes interplant transfers. <sup>2</sup> Waterproof. <sup>3</sup> Moisture resistant.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M24F, M24H, and M24.

## No. 1015. PAPER AND BOARD—PRODUCTION, BY GRADES: 1968 TO 1970

[In thousands of short tons. Excludes Hawaii. "N.e.c.," means not elsewhere classified]

GRADE	1968	1969	1970 (prel.)	GRADE	1968	1969	1970 (prel.)
All grades.....	51,245	54,057	52,471	Paperboard.....	24,504	26,022	24,960
Paper.....	22,398	23,505	23,216	Solid woodpulp furnish.....	17,085	18,678	18,107
Printing, writing, and related.....	13,602	14,481	14,244	Packaging <sup>2</sup> .....	13,742	15,083	14,766
Newsprint.....	2,956	3,253	3,356	Unbleached kraft.....	10,485	11,633	11,300
Groundwood, uncoated.....	1,187	1,215	1,176	Bleached.....	3,267	3,450	3,466
Coated printing and converted.....	3,134	3,345	3,351	Semicheical.....	3,343	3,595	3,341
Book, uncoated.....	2,585	2,667	2,516	Combination furnish.....	7,419	7,344	6,854
Bleached bristols <sup>1</sup> .....	1,008	1,031	1,012	Combination paperboard.....	5,680	5,594	5,100
Writing and related, n.e.c.....	2,732	2,970	2,833	Shipping container board.....	1,879	1,880	1,595
Packaging and industrial.....	5,398	5,524	5,360	Bending.....	2,978	2,875	2,600
converting.....	3,797	3,775	3,715	Nonbending.....	1,123	1,139	905
Unbleached kraft.....	1,245	1,310	1,237	Special combination.....			
Other, except unbleached kraft.....	416	440	408	packaging <sup>2</sup> .....	1,740	1,749	1,754
Special industrial.....	3,397	3,499	3,611	Wet machine board.....	155	148	158
Tissue.....	3,157	3,265	3,303	Shoe.....	56	51	(NA)
Sanitary.....	240	234	218	Binder's.....	(D)	(D)	(NA)
Other, excluding sanitary and thin.....				Other.....	(D)	(D)	(NA)
				Const. paper and board.....	4,189	4,384	4,137
				Construction paper.....	1,574	1,573	1,491
				Structural insulating board.....	1,333	1,352	1,194
				Hard pressed board.....	1,282	1,459	1,452

D Withheld to avoid disclosure of data for individual companies. NA Not available.

<sup>1</sup> Excludes cotton fibre index and bogus. <sup>2</sup> Includes industrial converting.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M28A.



## NO. 1016. PAPER AND BOARD—PRODUCTION, BY TYPES: 1950 TO 1970

[In thousands of short tons. Excludes Hawaii and, for 1950, Alaska]

TYPE	1950	1955	1960	1965	1966	1967	1968	1969	1970 (prel.)
<b>Total</b> .....	24,375	30,178	34,444	44,091	47,113	46,892	51,245	54,057	52,471
Paper.....	10,639	12,905	15,399	19,187	20,653	20,703	22,398	23,605	23,218
Paperboard.....	10,920	13,867	15,676	20,835	22,574	22,346	24,504	26,022	24,960
Wet machine board.....	165	179	175	144	148	146	155	148	158
Construction paper and board.....	2,640	2,328	3,104	3,825	3,739	3,697	4,189	4,384	4,137

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M20A.

## NO. 1017. WASTEPAPER UTILIZATION AND SALVAGE—UNITED STATES AND WESTERN EUROPE: 1950 TO 1969

[In thousands of short tons, except percent]

YEAR	UNITED STATES			WESTERN EUROPE		
	New supply of paper and board	Wastepaper consumption in paper and board	Salvage rate (percent)	New supply of paper and board	Wastepaper consumption in paper and board	Salvage rate (percent)
1950.....	29,012	7,956	27.4	9,810	2,391	24.4
1955.....	34,719	9,041	26.0	14,570	3,664	25.1
1960.....	39,138	9,032	23.1	21,010	5,374	25.6
1961.....	40,312	9,018	22.4	22,167	5,758	26.0
1962.....	42,216	9,076	21.5	22,949	5,879	25.6
1963.....	43,716	9,613	22.0	24,660	6,168	25.0
1964.....	46,385	9,843	20.4	26,890	6,864	26.0
1965.....	49,102	10,231	20.9	27,930	7,248	26.0
1966.....	52,680	10,664	20.1	29,318	7,601	26.0
1967.....	51,944	9,888	19.0	30,012	7,909	26.4
1968.....	55,122	10,292	18.7	32,242	8,672	26.9
1969.....	58,200	10,610	18.1	35,714	9,396	26.3

Source: American Paper Institute, Inc., New York, N.Y.; annual report, *Wood Pulp Statistics*.

## NO. 1018. NEWSPRINT—PRODUCTION, STOCKS, CONSUMPTION, IMPORTS, AND PRICE: 1950 TO 1970

[In thousands of short tons, except price]

COUNTRY AND ITEM	1950	1955	1960	1965	1967	1968	1969	1970
<b>Canada, including Newfoundland:</b>								
Production.....	5,279	6,191	6,739	7,720	8,051	8,031	8,758	8,607
Shipments from mills.....	5,311	6,236	6,752	7,747	7,968	8,096	8,741	8,592
Stocks at mills, end of year.....	89	80	140	150	268	203	220	236
<b>United States:<sup>1</sup></b>								
Consumption by publishers <sup>2</sup> .....	4,542	5,045	5,532	6,387	6,907	7,025	7,344	7,130
Production <sup>3</sup> .....	1,015	1,552	2,038	2,180	2,620	2,935	3,232	3,310
Shipments from mills <sup>4</sup> .....	1,017	1,550	2,031	2,183	2,602	2,946	3,233	3,303
Stocks, end of year: <sup>5</sup>								
At mills <sup>5</sup> .....	8	8	26	19	39	27	27	33
At and in transit to publishers.....	425	458	628	573	630	633	699	749
Imports <sup>6</sup> .....	4,864	5,164	5,412	6,323	6,599	6,463	6,788	6,835
Wholesale price, average <sup>7</sup> .....dol. per ton.....	101.63	125.94	134.40	132.40	139.95	141.40	146.10	150.50

<sup>1</sup> Excludes Alaska and Hawaii, except as noted.<sup>2</sup> As reported by publishers accounting for about 75 percent of total newsprint consumption in 1970.<sup>3</sup> Beginning 1965, includes Alaska and Hawaii.<sup>4</sup> Based on reports of the Bureau of the Census. Includes Alaska, Hawaii, and Puerto Rico.<sup>5</sup> Source: Dept. of Labor, Bureau of Labor Statistics. Standard newsprint, rolls, contract, delivered to principal ports. Annual averages.Source: Dept. of Commerce, Office of Business Economics (except as noted). Data from the American Newspaper Publishers Association, New York, N.Y., and Newsprint Division, American Paper Institute, New York, N.Y. In *Survey of Current Business*.

## Section 25

### Fisheries

This section presents statistics relating to commercial fishing and the fish processing industry. The principal source of these data is the National Marine Fisheries Service (NMFS) of the U.S. Department of Commerce. The NMFS was formerly the Bureau of Commercial Fisheries, an agency of the U.S. Department of the Interior. For a list of publications, see "Fisheries" on p. 914 of this book.

The NMFS publishes monthly data on commercial landings of fish and shellfish, freezings, and holdings of fishery products, fish meal and oil production, and foreign trade in fishery products. Quarterly data are published on U.S. output of fish sticks, fish portions, and breaded shrimp. Annual reports for fisheries include calendar year data on quantity and value of commercial landings of fish and shellfish (by species, regions, State, and by type of fishing gear), disposition of landings, number of fishermen, and number and kinds of fishing vessels and fishing gear. Reports for the fish-processing industry include annual data on output of canned, packaged, and industrial products. Annual data are published on foreign trade in fishery products and per capita consumption of edible fishery products. The NMFS publishes annual data for wholesaling and fish processing establishments showing annual and seasonal employment, and number of firms, by product and State.

The first comprehensive survey of U.S. fisheries and fishery industries, made for the year 1880, did not include the Mississippi River and its tributaries. A complete survey was conducted in 1908 by the Bureau of the Census and in 1931 by the Bureau of Fisheries. Various sections of the country have been surveyed from time to time. A complete survey of all sections, including manufacturing and wholesaling operations, was made for 1950. Beginning in 1954, complete data have been collected annually, except for a portion of the Mississippi River and its tributaries in 1961.

The Census of Commercial Fisheries for 1963 and 1967, conducted by the Bureau of the Census in cooperation with the Bureau of Commercial Fisheries, shows information classified by fishing regions and selected ports on commercial fishing vessel operators and fishing vessels, employment, gross receipts, and operating costs. Also included are data on vessel construction material, catch, and fishing gear.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

#### NO. 1019. FISHERIES—QUANTITY AND VALUE OF CATCH: 1930 TO 1970

[Prior to 1950, excludes Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series L 110-111]

YEAR	QUANTITY (mil. lb.)			Value (mil. dol.)	Average price per lb. (cents)	YEAR	QUANTITY (mil. lb.)			Value (mil. dol.)	Average price per lb. (cents)
	Total	For human food	For industrial products <sup>1</sup>				Total	For human food	For industrial products <sup>1</sup>		
1930.....	3, 224	2, 478	746	109	3. 4	1965.....	4, 777	2, 587	2, 190	446	9. 3
1940.....	4, 060	2, 675	1, 385	96	2. 4	1966.....	4, 366	2, 573	1, 793	472	10. 8
1945.....	4, 598	3, 167	1, 431	270	5. 9	1967.....	4, 055	2, 368	1, 687	440	10. 8
1950.....	4, 901	3, 307	1, 594	347	7. 1	1968.....	4, 180	2, 347	1, 813	497	11. 9
1955.....	4, 809	2, 579	2, 230	339	7. 1	1969.....	4, 292	2, 246	2, 046	518	12. 1
1960.....	4, 942	2, 498	2, 444	354	7. 2	1970 (prel.)...	4, 884	2, 482	2, 402	602	12. 3

<sup>1</sup> Manufactured into meal, oil, fish solubles, homogenized condensed fish, shell products, and used as bait and animal food.

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fishery Statistics of the United States*.

**No. 1020. FISHERIES—EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENTS:  
1950 TO 1969**

ITEM	1950 <sup>1</sup>	1955	1960	1965	1967	1968	1969
<b>Persons employed<sup>2</sup></b> .....	263,478	242,184	224,056	215,429	220,376	217,191	(NA)
Fishermen.....	161,463	144,359	130,431	128,565	131,782	128,440	(NA)
Shore workers.....	102,015	97,825	93,625	86,864	88,624	88,742	88,377
<b>Craft utilized<sup>2</sup></b> .....	92,310	81,340	77,057	79,532	81,328	80,611	(NA)
Vessels, 5 net tons and over.....	11,496	11,796	12,018	12,311	12,874	13,037	(NA)
Motorboats.....	46,067	58,218	56,889	63,828	66,075	65,529	(NA)
Other boats.....	34,747	11,326	8,150	3,393	2,379	2,045	(NA)
<b>Fishery shore establishments</b> .....	3,883	4,124	4,267	4,185	4,053	3,967	3,898

NA Not available. <sup>1</sup> Excludes Hawaii. <sup>2</sup> Exclusive of duplication.

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fishery Statistics of the United States*.

**No. 1021. COMMERCIAL FISHING VESSEL OPERATORS: 1963 AND 1967**  
[Receipts and payroll in thousands of dollars]

ITEM	1963			1967		
	Total	Operators with primary catch of—		Total	Operators with primary catch of—	
		Finfish	Shellfish, etc.		Finfish	Shellfish, etc.
<b>Operators with paid employees:</b>						
Number.....	9,251	5,377	3,874	10,267	5,523	4,744
Gross receipts.....	277,114	170,937	106,177	324,584	191,744	132,840
Employees, annual average.....	20,300	12,604	7,796	17,760	10,344	7,412
Payroll.....	102,332	66,938	35,394	106,417	66,881	40,036
Vessels.....	10,666	5,898	4,768	12,218	7,008	5,210
<b>Number with—</b>						
Less than 5 employees.....	8,237	4,720	3,517	9,347	4,922	4,425
5-9 employees.....	590	367	223	629	387	242
10-19 employees.....	342	233	109	234	163	71
20-99 employees.....	79	54	25	67	61	6

**No. 1022. COMMERCIAL FISHING VESSEL OPERATORS—STATES: 1963 AND 1967**

STATE	1963		1967		STATE	1963		1967	
	Number	Receipts <sup>1</sup> (\$1,000)	Number	Receipts <sup>1</sup> (\$1,000)		Number	Receipts <sup>1</sup> (\$1,000)	Number	Receipts <sup>1</sup> (\$1,000)
<b>Total.....</b>	<b>9,251</b>	<b>277,114</b>	<b>10,267</b>	<b>324,584</b>	<b>S.A.—Con.</b>				
N.E.....	729	45,086	657	44,682	D.C.....	—	—	3	25
Maine.....	148	4,984	110	6,315	Va.....	572	9,905	727	13,729
Mass.....	460	35,325	429	34,447	N.C.....	273	4,553	316	6,640
R.I.....	79	2,810	77	2,528	S.C.....	127	1,318	115	3,671
Conn.....	52	1,068	41	1,392	Ga.....	193	3,203	166	4,229
M.A.....	394	12,004	349	14,814	Fla.....	740	27,551	967	36,270
N.Y.....	141	4,661	150	6,020	E.S.C.....	272	12,351	415	12,454
N.J.....	244	7,235	168	7,316	Ala.....	125	3,261	224	8,333
Pa.....	9	108	41	1,469	Miss.....	147	9,090	191	6,121
E.N.C.....	337	4,685	256	4,995	W.S.C.....	1,373	47,121	1,592	61,712
Ohio.....	52	1,269	29	1,874	La.....	700	21,518	850	25,827
Ill.....	6	294	4	53	Tex.....	613	25,003	733	35,886
Mich.....	170	1,961	140	2,154	Mt.....	5	131	—	—
Wis.....	109	1,171	83	1,414	Pac.....	3,797	104,996	4,185	115,693
W.N.C.....	26	210	11	83	Wash.....	1,320	30,393	1,322	35,874
Minn.....	19	151	11	83	Oreg.....	320	4,651	448	8,325
S.A.....	2,318	50,530	2,802	70,151	Calif.....	980	44,196	1,175	44,834
Del.....	34	1,183	10	878	Alaska.....	1,100	23,451	1,183	24,264
Md.....	379	2,817	498	4,709	Hawaii.....	77	2,305	87	2,696

— Represents zero. <sup>1</sup> Gross.

Source of tables 1021 and 1022: Dept. of Commerce, Bureau of the Census; *Census of Commercial Fisheries, 1963 and 1967*.

## No. 1023. FISHERIES—FISHERMEN, FISHING CRAFT, AND CATCH, BY AREAS: 1969

[See *Historical Statistics, Colonial Times to 1967*, series L 110-123, for data on quantity of catch]

AREA	Fisher- men	Fish- ing vessels	Fish- ing boats <sup>1</sup>	CATCH (mil. lb.)			VALUE OF CATCH (mil. dol.)		
				Total	Fish	Shell- fish	Total	Fish	Shell- fish
United States.....	(NA)	(NA)	(NA)	4, 335	3, 568	767	527	270	257
New England States.....	19, 951	690	10, 800	568	483	85	81	37	44
Middle Atlantic States.....	8, 520	504	8, 875	138	77	61	26	5	21
Chesapeake Bay States.....	17, 219	1, 481	11, 237	354	251	103	36	8	28
South Atlantic States.....	9, 304	1, 186	5, 421	319	257	62	36	12	24
Gulf States.....	(NA)	(NA)	(NA)	<sup>2</sup> 1, 615	1, 382	233	<sup>2</sup> 162	52	100
Pacific Coast States.....	(NA)	(NA)	(NA)	<sup>2</sup> 1, 194	978	<sup>2</sup> 216	<sup>2</sup> 178	140	<sup>2</sup> 38
Great Lakes States.....	1, 677	269	747	69	69	—	0	6	—
Mississippi River States.....	11, 481	—	10, 200	69	62	7	9	7	2
Hawaii.....	1, 338	61	631	9	9	(Z)	3	3	(Z)

- Represents zero. NA Not available. Z Less than 500,000 pounds or \$500,000.

<sup>1</sup> Refers to craft having capacity of less than 5 net tons. <sup>2</sup> Includes whale products.

## No. 1024. FISHERIES—CATCH AND VALUE OF PRINCIPAL SPECIES: 1950 TO 1970

[Catch in millions of pounds, value in millions of dollars. 1950 excludes Hawaii]

SPECIES	1950		1960		1965		1969		1970 (prel.)	
	Catch	Value	Catch	Value	Catch	Value	Catch	Value	Catch	Value
<b>Fish:</b>										
Cod, Atlantic.....	57	4	40	3	36	3	58	5	53	6
Flounder.....	132	12	127	13	180	18	<sup>2</sup> 118	<sup>2</sup> 10	<sup>2</sup> 122	<sup>2</sup> 19
Haddock.....	169	12	119	9	134	14	46	8	27	6
Halibut, Pacific.....	51	8	51	6	40	9	33	8	35	8
Herring, sea.....	364	3	239	4	110	2	83	2	88	2
Mackerel, Pacific and jack.....	166	3	118	2	74	2	54	2	48	2
Menhaden.....	1, 026	10	2, 018	20	1, 726	27	1, 548	23	1, 814	32
Ocean perch, Atlantic.....	208	9	141	5	84	3	56	2	55	3
Salmon, Pacific.....	329	37	235	45	327	65	246	55	397	90
Tuna <sup>1</sup> .....	391	61	208	38	319	42	323	54	393	75
Whiting.....	67	1	112	3	83	2	46	3	45	4
<b>Shellfish:</b>										
Clams (meats).....	41	11	50	12	71	17	3 76	3 24	3 89	3 26
Crabs.....	169	9	222	17	335	31	246	40	268	39
Lobsters, northern.....	23	8	31	14	30	22	32	27	33	32
Oysters (meats).....	76	30	60	29	55	28	52	28	51	28
Shrimp (heads-on).....	191	43	249	67	244	82	317	123	368	130

<sup>1</sup> Excludes landings of tuna by U.S. vessels in Puerto Rico. <sup>2</sup> Atlantic and Gulf. <sup>3</sup> Atlantic.Source of tables 1023 and 1024: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual reports, *Fishery Statistics of the United States* and *Fisheries of the United States*.

## No. 1025. PRICES RECEIVED BY FISHERMEN: 1950 TO 1969

[Cents per pound. Based on prices received by the fishermen from the producer]

ITEM	Point of pricing	1950	1955	1960	1965	1967	1968	1969 <sup>1</sup>
Clams, soft.....	Maine.....	17.2	36.1	39.7	49.1	46.6	41.7	42.4
Cod.....	Massachusetts.....	7.2	6.8	7.6	9.4	9.6	8.5	10.0
Crabs, blue.....	Maryland, Virginia.....	(NA)	(NA)	5.5	7.6	5.9	11.1	9.2
Flounder.....	Massachusetts.....	11.1	12.6	12.2	9.5	11.5	11.4	13.4
Haddock.....	Massachusetts.....	8.5	6.8	9.0	10.2	12.9	15.1	19.3
Lobsters, northern.....	Maine.....	34.9	38.4	45.7	75.2	82.5	72.8	80.9
Menhaden.....	(No specific point).....	1.0	1.3	1.0	1.6	1.2	1.4	1.5
Ocean perch.....	Maine, Massachusetts.....	4.4	3.8	4.0	4.1	3.9	3.9	4.2
Oysters, eastern.....	Maryland, Virginia.....	(NA)	(NA)	68.2	78.6	67.4	68.5	68.2
Salmon, chinook, troll-caught.....	(No specific point).....	28.7	33.8	50.8	48.3	50.3	49.6	62.1
Salmon, coho, troll-caught.....	(No specific point).....	27.5	24.5	40.8	30.1	40.4	45.1	50.6
Sea scallops.....	New Bedford, Mass.....	46.6	52.3	34.9	67.5	77.2	111.9	110.8
Shrimp.....	South Atlantic, Gulf.....	(NA)	(NA)	44.4	58.0	64.5	76.4	81.5
Tuna, albacore.....	(No specific point).....	<sup>2</sup> 15.7	16.6	15.7	15.7	19.7	20.7	21.8

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> For 1961.Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; *Prices Received by Fishermen*, H.S. No. 12. (C.F.S. No. 4657 Revised.)

# No. 1026. FISHERIES—QUANTITY AND VALUE OF CATCH, BY STATES, AND CATCH OF PRINCIPAL SPECIES, BY AREAS: 1950 TO 1969

[Catch in thousands of pounds; value in thousands of dollars. Values represent the value of fish to fishermen. See also *Historical Statistics, Colonial Times to 1967*, series L 114-154]

STATE, CATCH, AND VALUE	1950	1955	1960	1965	1966	1967	1968	1969
<b>New England:</b>								
Catch.....	1,006,590	955,418	851,964	702,181	684,375	625,340	634,748	568,300
Value.....	60,576	57,243	61,474	74,837	78,247	70,256	76,657	80,600
Maine: Catch.....	356,266	257,174	204,641	204,846	200,392	197,438	218,731	191,300
Value.....	14,689	10,083	20,071	21,922	24,329	22,973	25,614	27,500
New Hampshire: Catch.....	645	948	1,188	1,272	1,266	1,166	1,244	1,300
Value.....	219	345	430	637	666	683	666	1,000
Massachusetts: Catch.....	591,188	560,413	480,421	442,480	409,744	345,621	338,280	281,700
Value.....	40,768	35,057	35,947	46,147	46,175	39,068	41,885	42,000
Rhode Island: Catch.....	38,265	115,323	60,318	48,706	68,088	76,347	71,024	88,500
Value.....	2,788	4,738	3,846	4,624	5,323	5,764	6,262	8,400
Connecticut: Catch.....	20,226	15,560	6,306	4,927	4,885	4,768	5,469	5,500
Value.....	2,114	1,020	1,180	1,507	1,754	1,768	1,530	1,700
Catch, by species:								
Cod.....	53,968	32,369	35,255	35,465	37,290	43,870	48,598	56,900
Flounder.....	66,824	50,084	61,559	112,061	104,950	98,301	94,924	99,700
Haddock.....	157,765	135,029	118,615	133,878	132,204	98,438	70,628	46,800
Herring, sea.....	195,154	104,286	154,667	75,014	65,603	68,557	91,869	68,600
Lobster.....	22,559	27,624	29,260	28,530	28,007	24,766	30,034	30,700
Ocean perch.....	207,793	156,989	141,433	83,607	81,652	71,409	61,323	55,800
Whiting.....	65,464	110,630	103,637	76,377	83,841	59,909	71,734	39,300
<b>Middle Atlantic:</b>								
Catch.....	491,685	871,096	783,848	355,951	167,912	162,600	186,530	137,900
Value.....	28,843	28,037	21,757	24,681	21,676	23,686	25,163	25,500
New York: Catch.....	142,341	182,791	125,032	147,462	64,113	38,047	59,488	41,400
Value.....	15,502	9,498	8,781	12,387	11,349	12,711	14,326	14,000
New Jersey: Catch.....	188,623	421,286	373,688	160,440	98,273	123,688	126,369	92,900
Value.....	10,200	13,074	9,607	11,385	9,886	10,716	10,609	11,000
Delaware: Catch.....	160,721	317,019	284,228	48,049	5,626	865	673	3,600
Value.....	3,141	6,365	3,369	909	841	259	228	500
Catch, by species:								
Clams.....	21,681	16,671	31,776	52,240	54,895	54,521	45,259	52,400
Menhaden.....	372,946	763,827	670,799	151,011	22,016	46,538	86,262	43,800
Oysters.....	18,170	9,848	1,154	757	917	1,190	1,538	1,300
Soup.....	20,556	20,686	26,638	16,635	8,415	7,307	6,220	5,300
<b>Chesapeake Bay:</b>								
Catch.....	380,892	496,208	435,797	591,634	501,689	422,317	437,858	354,100
Value.....	25,007	31,601	34,861	40,189	33,230	35,449	36,569	36,100
Maryland: Catch.....	67,092	55,240	69,113	86,672	83,309	74,666	55,788	74,800
Value.....	8,888	11,147	13,036	13,220	14,279	17,356	16,009	18,200
Virginia: Catch.....	313,800	440,959	366,684	504,862	418,380	347,651	382,070	279,300
Value.....	16,119	20,454	20,025	26,969	20,959	18,093	20,560	17,900
Catch, by species:								
Alewives.....	34,628	26,988	18,989	38,202	20,968	30,444	36,282	33,900
Clams.....	1,701	3,950	7,823	10,878	9,601	8,548	13,322	17,900
Crabs.....	80,046	45,128	70,716	86,334	97,016	82,815	55,994	60,900
Menhaden.....	170,912	315,359	248,905	359,946	277,895	223,268	274,077	181,700
Oysters.....	29,954	39,227	27,111	21,188	21,232	25,798	22,679	23,000
<b>South Atlantic:</b>								
Catch.....	260,881	346,574	378,879	356,652	367,777	353,344	339,438	318,800
Value.....	18,944	17,274	20,230	26,789	27,069	25,026	32,943	30,000
North Carolina: Catch.....	172,338	233,096	265,248	233,961	250,932	225,088	232,175	219,000
Value.....	6,800	7,284	7,020	9,241	9,571	8,328	9,706	12,100
South Carolina: Catch.....	14,726	22,033	24,252	26,611	23,192	18,868	21,323	20,900
Value.....	2,810	2,487	4,030	4,928	4,199	3,220	5,610	5,400
Georgia: Catch.....	17,351	19,025	27,968	20,059	16,024	16,382	14,338	15,400
Value.....	3,584	2,472	3,391	4,140	3,883	3,655	6,210	6,300
Florida (east coast):								
Catch.....	56,466	72,420	61,411	76,021	77,629	93,006	71,602	63,500
Value.....	5,750	5,031	6,780	8,480	9,416	9,823	11,417	12,200
Catch, by species:								
Crabs.....	20,275	32,606	44,927	46,432	40,830	37,546	33,191	41,500
Menhaden.....	147,125	227,811	215,023	192,275	215,114	193,778	191,882	164,900
Shrimp.....	36,481	28,539	31,214	26,191	21,475	20,598	24,285	27,400

## No. 1026. FISHERIES—QUANTITY AND VALUE OF CATCH, BY STATES, AND CATCH OF PRINCIPAL SPECIES, BY AREAS: 1950 TO 1969—Continued

[Catch in thousands of pounds; value in thousands of dollars. Values represent the value of fish to fishermen. See also *Historical Statistics, Colonial Times to 1957*, Series L 114-154]

STATE, CATCH, AND VALUE	1950	1955	1960	1965	1966	1967	1968	1969
<b>Gulf States:</b>								
Catch.....	570,641	829,638	1,265,950	1,463,475	1,196,108	1,180,731	1,283,903	1,614,600
Value.....	50,358	76,287	85,450	113,542	122,581	127,406	138,968	152,300
Florida: Catch.....	62,013	105,766	135,535	135,866	125,975	114,408	102,873	116,500
Value.....	9,955	21,190	21,048	26,866	24,984	23,118	25,177	29,500
Alabama: Catch.....	10,988	13,441	12,106	17,789	20,562	26,412	29,706	28,500
Value.....	2,122	2,265	3,003	4,086	6,807	8,300	10,073	10,500
Mississippi: Catch.....	93,023	188,387	314,214	368,385	269,353	262,050	243,276	307,100
Value.....	5,441	6,725	7,606	9,264	9,066	8,986	10,329	10,600
Louisiana: Catch.....	307,366	391,953	566,411	787,087	656,834	639,675	763,969	1,008,100
Value.....	21,575	22,378	25,949	36,852	38,979	37,280	43,623	54,400
Texas: Catch.....	97,251	130,101	237,684	164,348	125,944	138,227	149,984	159,400
Value.....	11,265	23,729	27,853	35,574	42,745	49,722	49,761	47,300
Catch, by species:								
Crabs.....	19,218	20,337	35,768	37,879	31,004	28,529	27,329	32,700
Menhaden.....	320,030	480,992	840,907	1,022,837	762,671	700,088	823,856	1,155,200
Mullet.....	23,892	27,508	32,708	33,918	39,014	23,280	25,292	30,100
Oysters.....	12,292	13,881	16,098	19,150	17,182	21,747	20,739	19,800
Shrimp.....	161,753	212,402	205,725	195,237	179,230	225,731	204,024	198,400
<b>Great Lakes: <sup>2</sup></b>								
Catch <sup>3</sup> .....	70,882	76,754	68,243	55,905	69,450	83,565	68,983	68,500
Value <sup>3</sup> .....	10,846	9,699	7,133	5,832	5,874	6,050	5,863	6,100
Superior: Catch.....	12,584	13,581	13,771	8,748	8,258	7,895	6,573	5,200
Value.....	1,977	1,886	1,301	1,063	1,095	1,133	1,004	1,000
Michigan: Catch.....	27,078	30,039	24,311	26,094	42,764	58,951	45,810	47,000
Value.....	3,661	3,221	2,447	2,426	2,816	2,963	3,087	3,000
Huron: Catch.....	5,073	4,553	6,338	4,673	3,769	3,211	2,678	2,900
Value.....	411	484	1,249	776	649	476	439	500
Erie: Catch.....	23,982	26,796	21,258	13,624	12,698	11,615	11,921	11,000
Value.....	4,572	3,954	1,920	1,414	1,179	1,826	1,166	1,400
<b>Pacific Coast:</b>								
Catch.....	1,997,542	1,115,427	1,060,825	1,146,725	1,253,637	1,134,735	1,117,449	1,193,600
Value.....	139,199	106,532	112,118	148,363	168,126	140,377	170,394	178,100
Washington: Catch.....	118,694	155,305	113,115	127,357	138,218	174,770	125,037	144,000
Value.....	19,071	20,906	15,551	18,477	20,650	24,919	20,517	27,100
Oregon: Catch.....	58,256	46,710	49,160	49,145	74,804	91,632	94,498	87,200
Value.....	7,151	5,683	6,055	8,816	11,167	16,284	16,092	17,000
California: Catch.....	1,338,299	598,080	540,837	458,028	460,945	506,988	448,173	578,000
Value.....	81,605	53,175	49,578	50,743	55,582	51,384	54,002	62,900
Alaska: Catch.....	482,293	315,323	357,713	492,195	581,670	361,345	449,741	384,400
Value.....	31,372	26,768	40,934	70,327	80,718	47,790	79,003	71,100
Catch, by species:								
Crabs.....	23,810	20,004	64,847	160,913	199,251	170,595	135,606	116,600
Flounder.....	49,799	40,912	47,683	46,463	46,830	40,159	44,571	45,400
Halibut.....	12,456	22,410	50,932	40,497	40,326	39,778	25,740	33,400
Herring.....	1,864	2,413	83,820	34,543	24,107	18,299	14,973	14,200
Mackerel.....	32,650	23,310	36,810	27,050	4,630	1,167	3,134	2,400
Pilchard or sardine.....	619,498	145,608	57,533	1,024	1,878	149	124	90
Salmon.....	328,644	289,880	235,447	326,806	387,512	216,664	327,609	246,200
Shrimp.....	3,954	4,825	12,418	20,091	34,438	54,462	56,406	62,400
Tuna.....	389,891	269,362	287,765	296,485	255,851	314,750	281,188	315,000
<b>Mississippi River and tributaries:</b>								
Catch.....	105,796	103,166	85,605	84,755	111,872	80,571	72,892	69,000
Value.....	10,104	8,205	7,829	7,844	10,514	8,380	8,259	8,500
<b>Hawaii:</b>								
Catch.....	15,917	15,096	11,118	19,588	13,014	11,842	12,896	9,500
Value.....	3,508	3,113	2,704	3,602	3,128	3,077	3,451	3,500
Tuna catch.....	11,918	11,958	6,020	17,450	10,697	9,268	10,342	7,100

<sup>1</sup> West coast. <sup>2</sup> Collected largely by State fishery agencies, and compiled by National Marine Fishery Service.<sup>3</sup> Includes, in addition to lakes shown, small amounts for Lake Ontario, Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fishery Statistics of the United States*.

## NO. 1027. SUPPLY OF FISHERY PRODUCTS: 1955 TO 1970

[Round weight, in millions of pounds, except as indicated]

ITEM	1955	1960	1965	1967	1968	1969 (prel.)	1970 (prel.)
<b>Total</b> .....	7,121	8,223	10,535	13,991	17,381	11,802	11,460
For human food.....	3,911	4,264	5,163	4,849	5,579	5,599	6,174
For industrial use.....	3,210	3,959	5,372	9,142	11,802	6,203	5,286
<b>Domestic catch</b> .....	4,809	4,942	4,777	4,055	4,160	4,292	4,884
Percent of total.....	67.5	60.1	45.3	20.0	23.9	36.4	42.6
For human food.....	2,579	2,498	2,587	2,368	2,347	2,246	2,482
For industrial use <sup>1</sup> .....	2,230	2,444	2,190	1,687	1,813	2,046	2,402
<b>Imports <sup>2</sup></b> .....	2,312	3,281	5,758	9,936	13,221	7,510	6,576
Percent of total <sup>2</sup> .....	32.5	39.9	54.7	71.0	76.1	63.6	57.4
For human food <sup>2</sup> .....	1,332	1,766	2,576	2,481	3,232	3,353	3,692
For industrial use <sup>1</sup> .....	980	1,515	3,182	7,455	9,989	4,157	2,884

<sup>1</sup> Univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) are reported in the weights of meats, excluding the shell. <sup>2</sup> Excludes imports of cured cod into Puerto Rico; includes landings of tuna caught by foreign vessels in American Samoa.

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fisheries of the United States*.

## NO. 1028. FISHERIES—DISPOSITION OF DOMESTIC CATCH: 1950 TO 1970

[Round weight of catch in millions of pounds. Prior to 1960, excludes Hawaii. In addition to whole fish, a large portion of waste derived from canning, filleting, and dressing fish and shellfish is utilized in production of fish meal and oil. From 400 to 500 million pounds of waste were used in meal and oil production in each year shown. See also *Historical Statistics, Colonial Times to 1867*, series L 155-161]

DISPOSITION	1950	1955	1960	1965	1966	1967	1968	1969 (prel.)	1970 (prel.)
<b>Total</b> .....	4,884	4,794	4,942	4,777	4,366	4,055	4,160	4,292	4,834
Fresh and frozen.....	1,692	1,568	1,631	1,751	1,724	1,575	1,543	1,509	1,506
Canned.....	1,720	1,039	1,043	1,042	1,006	1,001	1,017	935	1,172
Cured.....	100	86	82	76	77	77	67	70	72
Reduced to meal, oil, etc.	1,372	2,101	2,186	1,908	1,557	1,402	1,533	1,778	2,134

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fisheries of the United States*.

## NO. 1029. FISHERY PRODUCTS—PER CAPITA CONSUMPTION: 1940 TO 1970

[Pounds of edible meat]

ITEM	1940	1950	1955	1960	1965	1967	1968	1969 (prel.)	1970 (prel.)
<b>Total</b> .....	11.0	11.8	10.5	10.3	10.9	10.8	11.0	11.1	11.4
<b>Fresh and frozen</b> .....	5.7	6.3	5.9	5.7	6.0	6.0	6.2	6.4	6.6
Fish.....	(NA)	(NA)	(NA)	3.8	3.8	3.9	4.0	4.2	(NA)
Shellfish.....	(NA)	(NA)	(NA)	1.9	2.2	2.1	2.2	2.2	(NA)
<b>Canned</b> .....	4.6	4.9	3.9	4.0	4.4	4.3	4.3	4.2	4.4
Mackerel (Pacific and jack).....	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Salmon.....	2.0	1.4	1.0	0.7	0.9	0.5	0.7	0.7	0.7
Sardines (pilchard and herring).....	1.0	1.4	0.6	0.4	0.3	0.4	0.4	0.4	0.4
Tuna.....	0.6	1.1	1.4	2.0	2.3	2.4	2.4	2.4	2.5
Shellfish.....	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.3	0.4
Other.....	0.1	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2
<b>Cured</b> .....	0.7	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.4

NA Not available.

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fisheries of the United States*.

# Fishery Products

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## NO. 1030. CANNED FISHERY PRODUCTS—PRODUCTION AND VALUE, BY SPECIES: 1960 TO 1970

[See also *Historical Statistics, Colonial Times to 1957*, series L 176-195]

PRODUCT	PRODUCTION (mil. lb.)					VALUE (mil. dol.)				
	1960	1965	1968	1969	1970 (prel.)	1960	1965	1968	1969	1970 (prel.)
<b>Total</b> .....	<b>1,084</b>	<b>1,122</b>	<b>1,267</b>	<b>1,168</b>	<b>1,353</b>	<b>388</b>	<b>495</b>	<b>584</b>	<b>576</b>	<b>751</b>
Salmon.....	136	174	165	122	188	88	123	118	90	143
Sardines, Maine <sup>1</sup> .....	<sup>2</sup> 74	<sup>2</sup> 30	40	24	19	<sup>2</sup> 21	<sup>2</sup> 11	19	12	11
Tuna.....	301	358	396	398	438	173	233	269	297	380
Mackerel.....	42	32	22	17	8	6	5	4	3	2
Shrimp.....	14	16	19	21	26	17	21	29	28	39
Clam products.....	45	68	82	63	65	14	18	20	22	25
Oysters.....	6	4	5	2	2	6	4	6	2	2
Other.....	464	440	557	520	607	63	81	118	121	149

<sup>1</sup> Also known as Atlantic sea herring    <sup>2</sup> Includes California sardines.

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fishery Statistics of the United States*.

## NO. 1031. INDUSTRIAL FISHERY PRODUCTS—PRODUCTION AND VALUE: 1950 TO 1970

[Excludes Hawaii, except, beginning 1955, meal includes Hawaii, Puerto Rico, and American Samoa. See also *Historical Statistics, Colonial Times to 1957*, series L 177 and L 196-201]

PRODUCT	1950	1955	1960	1965	1967	1968	1969	1970 (prel.)
<b>Scrap and meal:</b>								
Production..... tons	239,954	264,502	290,137	254,051	211,189	235,136	252,664	276,962
Value..... \$1,000	29,254	34,749	25,282	35,707	20,038	30,201	39,823	47,600
<b>Oil except vitamin:</b>								
Production..... 1,000 gal.	20,741	23,883	26,954	25,218	15,793	22,461	21,008	25,087
Value..... \$1,000	14,042	14,280	13,037	14,852	6,112	7,327	9,326	17,389
<b>Vitamin oil, value..... \$1,000</b>	<b>3,431</b>	<b>589</b>	<b>350</b>					

<sup>1</sup> Includes a small amount of vitamin oil.

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fishery Statistics of the United States*.

## NO. 1032. FISHERY PRODUCTS—IMPORTS AND EXPORTS: 1940 TO 1970

[Quantity in thousands of pounds; value in thousands of dollars. Includes Puerto Rico; beginning 1955, imports also include landings of tuna by foreign vessels in American Samoa. See *Historical Statistics, Colonial Times to 1957*, series L 192, for edible imports]

YEAR	IMPORTS				EXPORTS			
	Total value	Edible products		Non- edible, value	Total value	Edible products		Non- edible, value
		Quantity	Value			Quantity	Value	
1940.....	41,830	302,518	29,073	12,757	17,785	144,804	17,115	670
1945.....	101,254	404,768	76,434	24,820	38,510	135,979	30,855	7,655
1950.....	198,296	639,725	168,414	39,882	27,474	121,623	18,856	8,618
1955.....	258,869	780,185	208,973	49,896	39,977	109,750	24,923	16,054
1960.....	363,281	1,095,014	310,596	62,035	44,165	61,454	25,622	18,543
1965.....	600,904	1,398,778	479,412	121,492	69,483	96,444	49,308	20,175
1967.....	707,883	1,470,437	538,301	160,582	82,209	107,940	67,624	14,685
1968.....	822,669	1,741,365	643,165	179,504	87,767	90,808	56,845	10,912
1969.....	844,293	1,706,571	704,809	139,484	104,533	140,646	86,474	18,059
1970 (prel.).....	1,039,622	1,843,592	812,511	227,111	117,675	140,728	95,215	22,460

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual reports, *Fishery Statistics of the United States* and *Fisheries of the United States*. Compiled from data furnished by Bureau of the Census.



## No. 1033. FRESH AND FROZEN FISH AND FROZEN FISHERY PRODUCTS: 1960 TO 1970

[Excludes Alaska and Hawaii, except frozen fishery products includes Alaska. See *Historical Statistics, Colonial Times to 1957*, series L 160, for frozen fishery products]

PRODUCT	PRODUCTION (1,000 lb.)				VALUE (\$1,000)			
	1960	1965	1969	1970 (prel.)	1960	1965	1969	1970 (prel.)
<b>Fresh and frozen packaged fish.....</b>	<b>153,166</b>	<b>168,832</b>	<b>137,613</b>	<b>133,809</b>	<b>48,437</b>	<b>66,314</b>	<b>69,457</b>	<b>75,430</b>
Cod.....	9,483	9,975	15,397	13,619	2,851	3,530	6,980	7,445
Flounder.....	28,378	49,580	46,229	46,657	11,204	20,267	24,961	28,712
Haddock.....	33,324	40,154	13,553	8,807	10,839	10,286	8,492	6,925
Ocean perch, Atlantic.....	43,551	22,696	14,618	16,008	10,177	0,156	4,037	4,922
Whiting.....	2,951	2,286	895	782	571	509	270	267
Other.....	35,479	44,135	47,121	47,876	12,795	10,566	24,717	27,159
<b>Frozen fishery products.....</b>	<b>319,585</b>	<b>366,781</b>	<b>352,695</b>	<b>388,294</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>

NA Not available.

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fishery Statistics of the United States*.

## No. 1034. PROCESSED FISHERY PRODUCTS—SUMMARY: 1960, 1969, AND 1970

[Production in thousands of pounds, except as indicated. Includes Puerto Rico and American Samoa]

PRODUCT	1960		1969		1970 (prel.)	
	Production	Value (\$1,000)	Production	Value (\$1,000)	Production	Value (\$1,000)
<b>Total.....</b>	<b>(X)</b>	<b>812,847</b>	<b>(X)</b>	<b>1,487,900</b>	<b>(X)</b>	<b>(NA)</b>
<b>Packaged products, fresh and frozen.....</b>	<b>584,220</b>	<b>315,812</b>	<b>1,136,616</b>	<b>756,814</b>	<b>(NA)</b>	<b>(NA)</b>
<b>Fish:</b>						
Not breaded:						
Fillet and steaks, raw.....	153,166	48,437	138,453	70,356	133,809	75,430
Dressed.....	(NA)	(NA)	32,281	7,957	(NA)	(NA)
Other <sup>1</sup> .....	6,166	1,262	6,206	2,182	(NA)	(NA)
Breaded, raw and cooked:						
Sticks.....	65,142	28,671	113,389	51,242	115,032	57,720
Fillet, portions, and steaks.....	51,924	18,965	247,375	100,064	223,468	93,098
<b>Shellfish:</b>						
Not breaded.....	191,749	138,022	300,725	327,125	(NA)	(NA)
Breaded, raw and cooked.....	84,221	57,412	123,690	134,759	(NA)	(NA)
Specialties, fish and shellfish.....	31,852	23,043	174,517	63,129	(NA)	(NA)
<b>Canned products.....</b>	<b>1,083,556</b>	<b>387,595</b>	<b>1,168,281</b>	<b>575,533</b>	<b>1,353,315</b>	<b>750,662</b>
Fish and shellfish for human consumption.....	661,060	342,747	716,335	493,059	812,602	641,537
Salmon eggs for bait.....	718	869	620	1,856	1,010	3,893
Animal food.....	421,772	43,079	451,326	80,618	539,703	105,232
<b>Cured fish.....</b>	<b>68,319</b>	<b>42,845</b>	<b>68,231</b>	<b>66,341</b>	<b>(NA)</b>	<b>(NA)</b>
Salted (includes spiced and pickled) <sup>2</sup> .....	35,960	14,388	38,058	23,458	(NA)	(NA)
Smoked.....	31,512	27,557	29,171	39,647	(NA)	(NA)
Sun dried (includes freeze dried).....	857	900	1,002	3,336	(NA)	(NA)
<b>Industrial products.....</b>	<b>(X)</b>	<b>66,595</b>	<b>(X)</b>	<b>89,212</b>	<b>(X)</b>	<b>106,403</b>
Meal and scrap.....1,000 tons.....	290	25,282	253	39,823	277	47,600
Oil (body and liver).....1,000 gallons.....	27,886	13,386	21,098	9,326	25,087	17,389
Fish solubles.....1,000 tons.....	<sup>3</sup> 99	<sup>4</sup> 4,021	82	4,123	97	5,149
Oyster shell grit and lime.....1,000 tons.....	471	6,821	207	3,329	204	3,409
Shell buttons <sup>5</sup> .....1,000 gross tons.....	1,949	3,253	410	841		
Other <sup>1</sup> .....	(X)	13,832	(X)	31,770	(X)	32,856

NA Not available. X Not applicable.

<sup>1</sup> Includes unbreaded portions and whale meat for animal feeding.

<sup>2</sup> Includes lutefisk from dried cod.

<sup>3</sup> Includes homogenized condensed fish. <sup>4</sup> Fresh water mussel and marine shell.

<sup>5</sup> Includes processed seal skins in South Carolina for 1969 and 1970.

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fishery Statistics of the United States*.

**No. 1035. SELECTED FISHERY PRODUCTS—IMPORTS AND EXPORTS: 1960 TO 1970**  
 [Quantity in thousands of pounds; value in thousands of dollars. Includes Puerto Rico. See *Historical Statistics, Colonial Times to 1957*, series L 164-171, for selected imports]

PRODUCT	1960		1965		1969		1970 (prel.)	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>IMPORTS</b>								
<b>Edible:</b>								
Fresh or frozen:								
Whitefish (exc. filets).....	14,483	5,520	13,382	5,278	8,068	4,701	8,447	4,742
Halibut (exc. filets).....	24,124	5,832	21,723	7,508	20,093	8,563	18,213	8,124
Salmon (exc. filets).....	13,472	6,340	7,861	5,154	8,425	6,892	7,448	6,656
Sea herring.....	74,682	1,725	117,993	2,222	119,550	1,853	103,924	1,852
Smelt.....	8,437	1,402	8,800	1,368	8,585	1,609	8,489	1,570
Swordfish (exc. filets).....	7,256	2,994	7,193	3,784	7,407	4,998	8,779	4,973
Tuna.....	234,648	29,595	339,221	48,591	395,477	73,497	442,769	100,524
Groundfish filets.....	155,550	33,265	294,954	73,934	426,728	107,848	428,762	134,632
Other filets and steaks.....	61,713	20,955	74,724	30,078	120,434	53,289	136,102	63,592
Lobster and spiny lobster.....	53,749	44,767	56,411	62,439	112,708	55,146	93,792	93,792
Shrimp and prawn.....	113,418	56,406	160,287	111,277	190,168	172,114	214,839	196,843
Canned:								
Anchovies, in oil.....	5,160	2,173	4,543	3,617	4,673	4,978	5,457	6,295
Salmon.....	19,113	7,541	101	80	2,217	1,370	2,441	1,577
Sardines, in oil.....	21,236	8,330	21,532	10,241	27,220	12,441	34,070	15,820
Sardines and herring, not in oil.....	16,732	3,467	31,435	6,383	29,128	7,976	25,271	8,337
Tuna.....	51,755	19,142	59,961	20,428	73,116	37,067	72,262	44,300
Bonito and yellowtail.....	0,904	2,208	3,932	1,043	718	302	1,232	524
Crab meat.....	4,507	5,514	4,166	4,935	3,436	6,196	2,781	5,304
Lobster, common and spiny.....	2,939	5,239	2,980	7,336	2,771	8,141	2,488	7,966
Pickled or salted:								
Cod, haddock, hake, pollock, and cusk.....	47,855	9,435	41,541	8,810	37,992	10,537	41,226	13,631
Herring.....	29,294	3,924	26,742	3,756	19,312	2,897	30,602	5,406
Nonedible (scrap and meal).....	264,000	11,068	542,000	30,720	716,000	41,297	502,000	37,713
<b>EXPORTS</b>								
<b>Canned:</b>								
Salmon.....	11,924	9,830	24,892	15,916	15,536	11,565	16,811	13,134
Mackerel.....	1,305	211	2,174	401	174	35	98	20
Sardines.....	21,210	3,508	3,376	990	2,095	901	1,456	870
Fish oil, nonedible.....	143,659	19,688	103,897	9,298	196,073	11,048	158,787	15,699

Source: Dept. of Commerce, National Oceanic and Atmospheric Administration; annual report, *Fishery Statistics of the United States*. Compiled from data furnished by Bureau of the Census.

**No. 1036. POLLUTION-CAUSED FISH KILL, BY SOURCE OF POLLUTION AND TYPE OF WATER: 1965 TO 1970**

[Fish in thousands. Estimates based on reports from State agencies responsible for fisheries management]

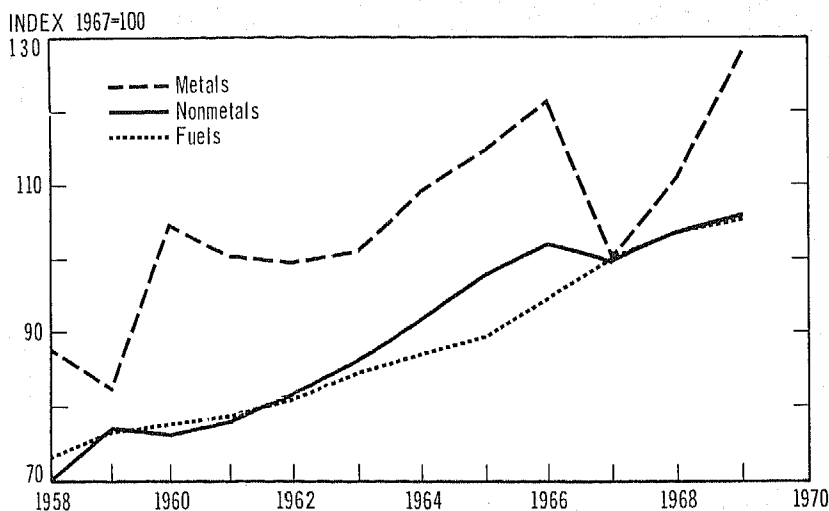
ITEM	1965	1968	1969	1970	ITEM	1965	1968	1969	1970
Number of reports.....	446	379	382	534	Source of pollution—				
<b>Fish reported</b>					Continued				
<b>killed.....number..</b>	<b>11,393</b>	<b>14,826</b>	<b>40,637</b>	<b>21,934</b>	Municipal operations.....	5,912	6,702	1,155	6,599
Source of pollution:					Refuse disposal.....	17	4	42	9
Agricultural operations.....	1,390	375	6,204	1,791	Sewerage systems.....	5,211	6,182	413	6,510
Insecticides.....					Water systems.....	904	336	3	20
poisons, etc.....	771	325	5,983	1,396	Other.....	79	1,270	1,697	1,60
Fertilizers.....	3	15	74	4	Transportation				
Manure-silage					operations.....	307	825	2,057	420
drainage.....	617	35	237	391	Pipeline.....	197	533	346	22
Industrial operations.....	3,764	6,256	28,680	9,349	Truck.....	106	6	56	68
Chemicals.....	219	732	922	326	Other.....	3	286	1,655	330
Food and kindred					Other operations.....	21	578	2,451	3,775
products.....	537	450	26,711	2,702	Type of water:				
Mining.....	295	83	537	577	Fresh.....	11,256	9,870	34,956	11,639
Paper and allied					Salt.....	102	2	641	536
products.....	495	203	18	528	Estuary.....	36	4,954	6,040	9,759
Petroleum.....	1,516	4,273	106	40	Average duration of				
Combinations.....	492	3	20	3,620	kill.....days..	2.6	3.0	3.1	3.0
Other.....	211	512	357	1,556					

<sup>1</sup> Includes 268,325 in 1968, 696,596 in 1969, and 58,100 in 1970 killed by power operations.

Source: Environmental Protection Agency, Water Quality Office; annual report, *Pollution-Caused Fish Kills*.

FIG. XLII. INDEXES OF THE PHYSICAL VOLUME OF MINERAL PRODUCTION: 1958 TO 1969

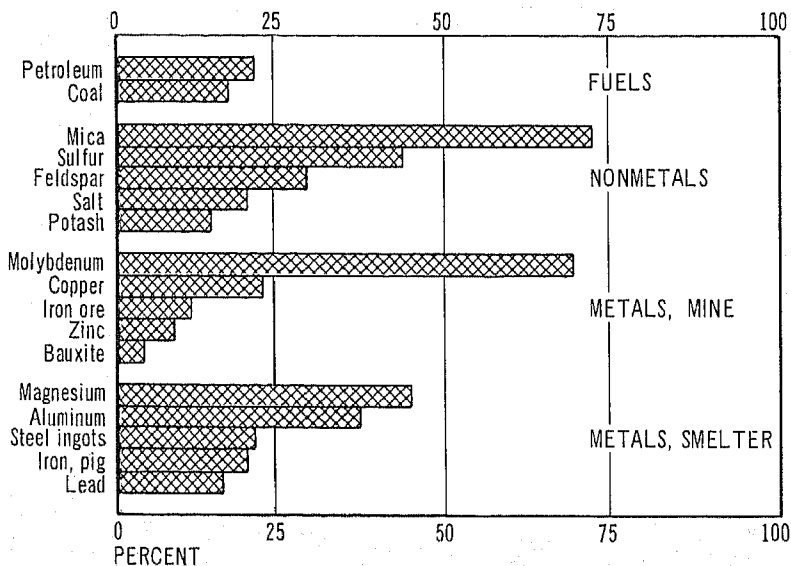
[1967 = 100. See table 1038]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of the Interior, Bureau of Mines.

FIG. XLIII. U.S. MINERAL PRODUCTION AS PERCENT OF WORLD TOTAL: 1969

[See table 1042]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of the Interior, Bureau of Mines.